Lambton Shores

Technical Report

Stormwater Management Master Plan Report

Grand Bend Stormwater Management Master Plan

October 2024

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Technical Report

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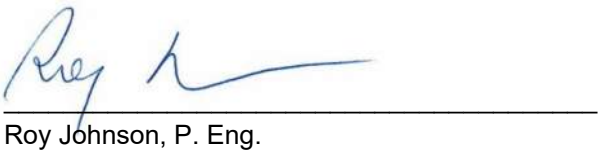
Grand Bend Stormwater Management Master Plan

October 22, 2024

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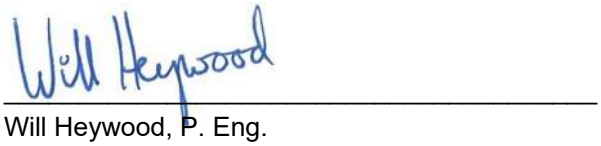
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Executive Summary

This report is to establish a much-needed road map for the Village of Grand Bend (the Village) Stormwater Management Master Plan (SWMMP) to advance the development of a comprehensive stormwater management strategy to address current and future needs.

As a Master Plan effort, a comprehensive approach is required looking at all stormwater systems throughout the Village to understand how they interact, where there are deficiencies, and where improvements are required now and in the future.

The goal of this SWMP is to identify and address immediate and long-term stormwater system needs, specifically:

- Inventory and address stormwater infrastructure issues as part of the Village's overall asset management program.
- Aid in the development of a 'level-of-service' (LOS) for stormwater management with the Village.
- Develop an integrated Village-wide approach for water quality, water quantity, erosion control, preservation of hydrologic process through water budgets and the preservation and enhancement of the natural environment.
- Direct infill and redevelopment requirements about stormwater management criteria tied to the recommended Master Plan approaches.
- Maintain existing funding and forecast future funding requirements to implement the preferred stormwater approaches.
- Develop an implementation plan to direct the safe and effective management of stormwater runoff from the Village's urban areas while improving the ecosystem health and ecological sustainability of the receiving watersheds.

The Technical Elements have been developed via a series of technical memos, which are included in the relevant appendices, and the reader is directed to them for details. A brief summary of each memo is provided in **Section 3**.

Technical Memo #1 – Background Information

Technical Memorandum #1 (TM#1) presents a summary review of the background information and data collection efforts conducted for the Grand Bend SWMMP. TM#1 is the first in a series of technical documents for this study. The intent of TM#1 is to summarize available information related specifically to Grand Bend. The information compiled and reviewed will be used to support subsequent technical activities to characterize and assess the storm drainage system. Refer to **Appendix A** for TM#1.

Data gaps were identified and strategies were developed to resolve any major issues. Additional information was collected for the storm sewer network by Arcadis field staff.

Technical Memorandum #2 – Model Results

Refer to **Appendix B** for TM#2. The assessment of problem areas and development of solutions is facilitated by a detailed PCSWMM dual-drainage model of the existing stormwater system, which has been built by Arcadis to represent the Study Area. The existing Geographic Information System (GIS) data and background information was initially reviewed and documented in Technical Memorandum #1 (TM#1). Technical Memorandum #2 (TM#2) summarizes the baseline model development process, parameterization of the baseline dual-drainage model and

estimate existing capacities of minor and major drainage system infrastructure under different design storms and identify problematic areas.

The baseline model found that the existing storm network is over capacity. In some areas, the HGL in the storm sewer is expected to reach the basement floor slab elevation in a 100-year storm event. The major system generally has adequate capacity, however in many areas drains to low points with insufficient outlets. In many of the modelled areas, the storm sewers are significantly over capacity with relatively low depth of flow on the road. Additional capture, including new catch basins, were investigated to improve the overland drainage and ponding on roads that may lead to surface flooding. Some of the storm sewers are over capacity and surcharging to the surface in minor events, so additional catch basins will not effectively capture ponding or significant overland flow. Future development and intensification can consider more rigorous stormwater management requirements. Potential solutions will focus on the use of inlet control devices (ICDs), overland drainage improvements. ICDs could be applied to areas where the minor system required additional capacity to alleviate the HGL and allow for additional inlet capacity at other locations.

Technical Memorandum #3 - Alternatives

Refer to **Appendix C** for TM#3. The purpose of this Technical Memo (TM#3) is to develop and evaluate alternatives to the problems identified in TM#2 for the Village of Grand Bend (the Village). This document outlines the existing deficiencies in the Village's stormwater infrastructure and proposes solutions for improvement. TM#3 will include the development of alternatives, performance information, costs, evaluation of alternatives, and the selection of a preferred alternative for each stormwater service area. The assessment of problem areas and development of solutions was facilitated by a PCSWMM dual-drainage model of the stormwater system.

The memo presents a range of practical mitigation options that the Village can consider addressing these deficiencies in the following sections. The focus of short-term infrastructure improvements is a conceptual Inlet Control Device (ICD) plan and other major overland system improvement recommendations. Long term solutions focus primarily on initiatives currently planned by the Village, including proposed sewer upgrades, along with some high-level opportunities that can be looked at in further detail.

Additionally, it will provide insights into the potential economic, environmental, and social benefits of implementing these solutions. The memo's scope includes recommendations for short-term actions and long-term strategies, as well as considerations for stakeholder engagement, regulatory compliance, and funding sources.

The baseline model found that the existing storm network is over capacity. In many areas, the HGL in the storm sewer is expected to reach the basement floor slab elevation in a 5-year storm event. The major system generally has adequate capacity, however in many areas drains to low points with insufficient outlets.

A proposed condition model was created, and possible solutions were assessed in the proposed development scenario. Future land use and climate change rainfall data was applied to the model to assess possible opportunities and constraints.

TM#3 **Appendix B** and **Appendix C** include supporting modelling files and a comparison of results of existing condition and proposed condition with improvements that were considered for recommendations. Summary of general findings within the area:

- Modelled results for the proposed conditions demonstrated some areas of the major system have potential capacity for additional flow to be conveyed overland, demonstrating that inlet control devices (ICDs) and overland drainage improvements should be applied.

- In many of the modelled areas, the storm sewers are over capacity with relatively low depth of flow on the road therefore the ICD's can begin to limit the flow contribution to the minor system.
- ICDs are low cost, short-term infrastructure improvements limiting flow capture at least until ponding on the road has reached a critical depth or where there is an overland outlet.
- However, in some areas there are limited opportunities in the area for ICDs or overland drainage improvements. ICDs are only appropriate to improve the level of service for areas that have an adequate outlet with additional capacity such as a trunk sewer or overland spill route.
- Additional capture, including new catch basins, was investigated to improve the overland drainage and ponding on roads that may lead to surface flooding. As the minor system is in some areas is over capacity, there are limited opportunities to add catch basins without increasing flooding risks in the minor system. Many of the storm sewers are over capacity and surcharging to the surface in minor events, so additional catch basins will not effectively relieve ponding or significant overland flow.
- LID measures are recommended in areas with good infiltration to provide reduction in storm runoff volume.
- Larger, long term infrastructure improvements particularly at life cycle renewal provide opportunities to improve the system performance for many areas.
- Grading improvements to allow for an emergency spill route at specific locations and installation of minor system can be considered during redevelopment in the residential area where overland drainage issues are present.

Technical Memorandum #4 – Implementation Plan

Refer to **Appendix D** for TM#4. Arcadis will identify all aspects of implementation for proposed source control, conveyance control, end-of-pipe controls, restoration measures and trunk sewer upgrades projects outlined in the preferred SWM strategy. The preferred solutions will be mapped and discussed relative to their evaluated effectiveness in meeting the evaluation criteria. Arcadis will also identify the requirements and mechanisms for the incorporation of the recommended stormwater technologies into new development, redevelopment, rehabilitation, or infrastructure replacement.

In addition to providing physical solutions in the SWM strategy, the project team will provide guidance on how to incorporate recommended policies and preferred solutions into Municipality the Official Plan, Zoning By-Laws, development standards and other relevant regulations. The Implementation Plan will direct the allocation of funding, the prioritization of works and which includes the necessary supporting policies to permit the implementation of the recommended approaches to achieve the overall SWMP goals and objectives.

The primary objective of the Implementation Plan is to identify SWM measures required to address existing deficiencies, discussing the timing of the measures, and discuss potential funding opportunities.

Fact sheets and maps for each stormwater service area were developed that summarizes the existing conditions, and the preferred SWM solutions and other relevant facts related to the SWMMP.

Table ES.1 highlights the proposed implementation plan for the recommended solutions and their priorities and associated issues.

There are a number of issues that will need to be addressed with respect to the proposed implementation plan noted in **Table ES.1**.

Table ES.1 Implementation Plan for Recommended Solutions

ONTARIO STREET NORTH	Future Improvements	• ICDs to be added at MH locations of MH10, MH8, MH3, MH4. • Sewer Pipe C716, C248, C767 could be upsized.
	Dependencies / Triggers	• The sewer on Ontario Street is expected to surcharge to the surface, limiting the ability for additional catch basins. • The addition of ICDs offset the negative impact of additional flow in the storm sewers. • A proposed design of the sewers system has been completed. Upgrades to the storm sewer are dependent on the life cycle renewal.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • Upsizing the storm sewer on Ontario Street will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Ontario Street. • Where the sewer does not have capacity, minor upsizing of the storm sewer is recommended. • Additional catch basins without other improvements are not recommended as the sewers are surcharging to the surface. **CAVEAT**: As this street's storm sewers were just designed following standard engineering practice, the modeling analysis completed may be too conservative in its estimation of flooding. The plans for this area are therefore subject to future review before any remedial work is deemed necessary.
MAIN STREET WEST	Future Improvements	• ICDs to be added at MH locations of MH4_Main, MH5_Main, MH6_Main. • Additional catch basins (8 CBs) to be added at the low point close to MJ105*. • Sewer Pipe C663, C664, C666, C753, C752 to be upsized. * MJ = Major Junction in PCSWMM Model
	Dependencies / Triggers	• Upgrades to the storm sewer are dependent on the grading constraints. • The design of any upgrades to storm sewers should consider the impact of larger storm events (i.e., 100-year) • As there are no outlets for the major system on Main Street and sewers surcharging to the surface will increase ponding.
	Benefits	• ICDs do not result in a large increase of ponding on roadways. • Additional catch basins at low points allow for ICDs to be installed upstream without worsening surface flooding and ponding at low points. • Upsizing the storm sewer on Main Street West will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for some areas of Main Street West. • Additional catch basins are recommended at low points where ICDs have been added upstream. • Where the sewer does not have capacity for additional catch basins, minor upsizing of the storm sewer is recommended.

Table ES.1 Implementation Plan for Recommended Solutions

GILL ROAD	Future Improvements	• ICDs to be added at MH locations of MH25-1 and MH26. • Additional catch basins (4 CBs) to be added at the low point close to MJ146*. • Sewer Pipe C343, C714, C344, C345, C764, C715, C346, C347 to be upsized. • *MJ = Major Junction in PCSWMM Model
	Dependencies / Triggers	• The storm sewer on Gill Road is over capacity during 5-year storm events and limits other improvements. • An ICD program is not recommended without other improvements.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • ICDs are a low-cost, short-term benefit to most properties in the area. • Upsizing the storm sewer on Rill Road will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Gill Road. • Upsizing the storm sewers to capture more flow with additional catch basins at low points is recommended. • Additional catch basins are recommended at low points **CAVEAT**: As this street's storm sewers were just designed following standard engineering practice, and no reports of flooding have been made, the plans for this area are therefore subject to future review before any remedial work is deemed necessary.
WILBERT STREET	Recommendations	• A pre-existing gravel pit retains stormwater. A local resident believes that the outlet may be blocked. The Village does not own it and consequently will not be addressing deficiencies.
HARBOURSIDE VILLAGE/ERIN PLACE	Recommendations	• The drainage ditch on Erin Place was constructed to divert water from the agricultural land to the south. It previously flowed through a natural ravine that existed prior to the subdivision being developed. The ditch itself is entirely on private property which limits the Municipalities ability to address it. • Lambton Shores staff have been working with the owner of the agricultural lands to create an alternative outlet for the water which may be completed under the Drainage Act or under some sort of other pre-development agreement.
GREEN ACRES CRESCENT	Future Improvements	• ICDs to be added at MH locations of J113, J101, J102**. • Sewer Pipe C712, C674 to be upsized. ** "J" indicates a minor system (pipe) junction in PCSWMM
	Dependencies / Triggers	• The downstream sewer is expected to surcharge to the surface, limiting the ability for additional catch basins.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • ICDs are a low-cost, short-term benefit to most properties in the area. • Upsizing the storm sewer will benefit the minor system performance for the area.

Table ES.1 Implementation Plan for Recommended Solutions

	Recommendations	• ICDs are recommended for Green Acres Crescent. • Where the sewer does not have capacity, minor upsizing of the storm sewer is recommended.
RESIDENTIAL AREAS WITHOUT SEWERS	Future Improvements	Consider installing proposed sewer system within the problematic area for a long-term development. Provide overland flow route by revise grading.
	Dependencies / Triggers	Significant surface ponding at low points without minor systems
	Benefits	Installation of storm sewer systems will benefit several properties with a history of flooding.
	Recommendations	The residential areas at the northwest of the Village have a history of flooding (See Figure 2-1-b) and installation of the storm sewer will improve the performance in these areas. Revise the grading and provide positive outlet for overland flow route to avoid ponding at low points within the areas. **CAVEAT**: Due to the expense and complexity of installing new storm sewers, any work should be considered in the context of municipal budgets and carried out during other scheduled road works.

The following **Table ES.2** summarizes the proposed SWM Criteria for the Village.

Table ES.2 SWM Criteria – Lambton Shores (Proposed)

PARAMETER	CRITERIA	ARCADIS SUMMARY
Water Quality and Erosion Control	The water quality target is the long-term average removal of 80% of Total Suspended Solids on an annual loading basis from all runoff leaving the proposed development site based on the post-development level of imperviousness. Provide for 24-48 hr detention of runoff from a 25mm storm. Given the size of a typical site plan development, the storage volumes involved may not be feasible to meet the detention time requirement; therefore, a minimum orifice plate size of 75mm is acceptable. Consultants should provide either a design for meeting the requirements or justification for why it is not achievable.	80% TSS Removal (Enhanced) Retain 25mm storm (if feasible)
Quantity Control	The 100-year storm is the level of protection for properties, where feasible, against surface flooding from ponding on streets, For development sites <2ha, the proponent may use a simplified approach such as the Rational Method / IDF curves to compute peak flows. The stormwater management system shall be designed by using MIDUSS (current version) or an alternate approved hydrologic model. The	Control 100-year post to 5-year pre.

Table ES.2 SWM Criteria – Lambton Shores (Proposed)

PARAMETER	CRITERIA	ARCADIS SUMMARY
	Developer's Engineer shall consult the Conservation Authority as to the appropriate storm distribution and duration to be used. The Developer's Engineer shall advise the Municipal Engineer in writing as to the Authority's requirements. The design of the stormwater management system shall be in accordance with the latest version of the "Stormwater Management Practices, Planning and Design Manual", as prepared by the Ministry of the Environment, Conservation and Parks.	
Water Balance	Post development infiltration should be matched to pre-development levels, where "pre-development" represents open field or "greenfield" conditions.	Post to pre on an annual basis
Discharge Criteria	The design storm for the minor systems shall be the 5-year storm for new local storm sewers. In some areas of the Municipality a 2-year storm may be used where approved by the Municipality. The major system shall be designed to convey the 100-year storm event.	Arcadis would recommend the 5-year sewer be used for all minor systems and 100-year as the overland criterion
Climate Change	Use existing IDF data be used to set pre-development hydrologic data, and the updated IDF data for analysis of post-development hydrologic performance.	

Lambton Shores does not currently have a detailed plan for proposed future municipal works related to road improvements; therefore, we recommend that in future, stormwater enhancements be evaluated in the context of the proposed road improvements to minimize both costs and potential local disruption to residents and selected accordingly.

Areas requiring remedial action were identified in TM#3. These measures are essentially a combination of storm sewer upsizing, installation of additional catchbasins, and inlet control devices, alone or in combination.

Recommendations should be implemented when roadworks are planned by the Municipality. Recommendations include the remedial measures outlined in **TM#3 Section 2**.

1 Introduction

1.1 Background

This report is to establish a much-needed road map for the Village of Grand Bend (the Village) Stormwater Management Master Plan (SWMMP) to advance the development of a comprehensive stormwater management strategy to address current and future needs.

As a Master Plan effort, a comprehensive approach is required looking at all stormwater systems throughout the Village to understand how they interact, where there are deficiencies, and where improvements are required now and in the future.

Stormwater systems include many components including:

- overland conveyance systems (overland, road, and ditch),
- inlets and pipe collection systems,
- water quantity/quality features (end-of-pipe facilities, LID, etc.), and
- outfalls.

Integral to stormwater management practice are quantity and quality control features (end-of-pipe storage, etc.) designed to minimize water quantity and quality impacts on natural systems and aquatic habitat, as well as protecting streams from erosion and managing impacts on flood levels. Based on our review of the scope of work and our understanding of existing systems, the existing Municipal Drains are not part of the stormwater management system and will not be considered in this assignment.

The Village's SWMMP must consider the functional requirements of all stormwater services and how they work today and in the future. It needs to provide an acceptable level of service and meet regulatory requirements in accordance with watershed drainage plans, recognizing the constraints imposed by topography and other local considerations.

The SWMMP process is relatively straightforward as it follows the Class EA process for Master Plans (equivalent to a Schedule B) requiring a review of background information, preparation of hydrologic/hydraulic modelling tools, system assessment with a problem/opportunity statement, and the development and evaluation of projects/strategies to meet level of service objectives.

1.2 Location

The Village of Grand Bend is a community located on the shores of Lake Huron in Southwestern Ontario, Canada. It is part of the Municipality of Lambton Shores in Lambton County. Grand Bend is situated on the traditional territory of the Attawandaron and Ojibwe/Chippewa First Nations. See **Figure 1** and **Figure 2**.

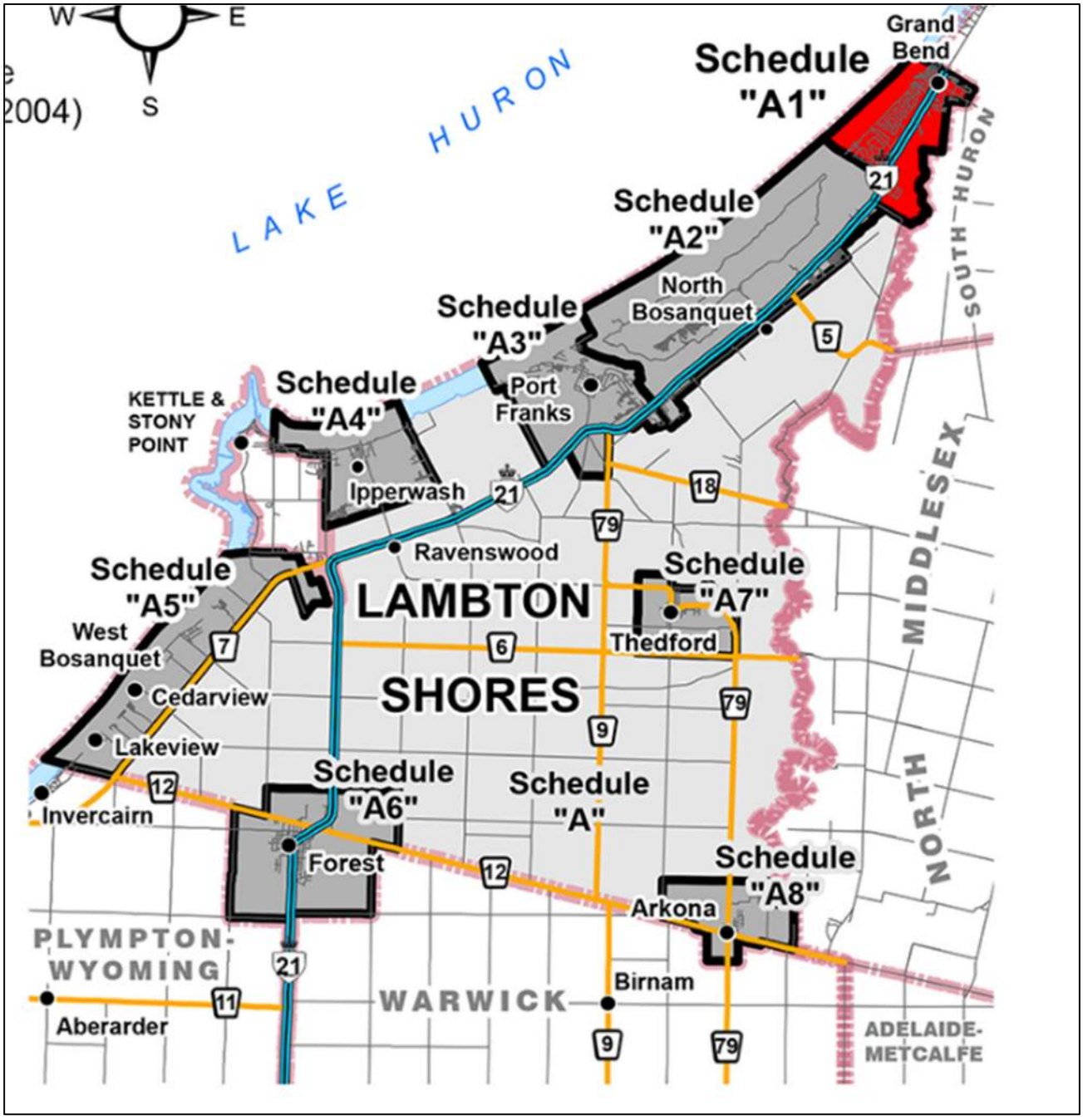


Figure 1 Excerpt from Municipality of Lambton Shores Official Plan Schedule "A1" (Grand Bend)

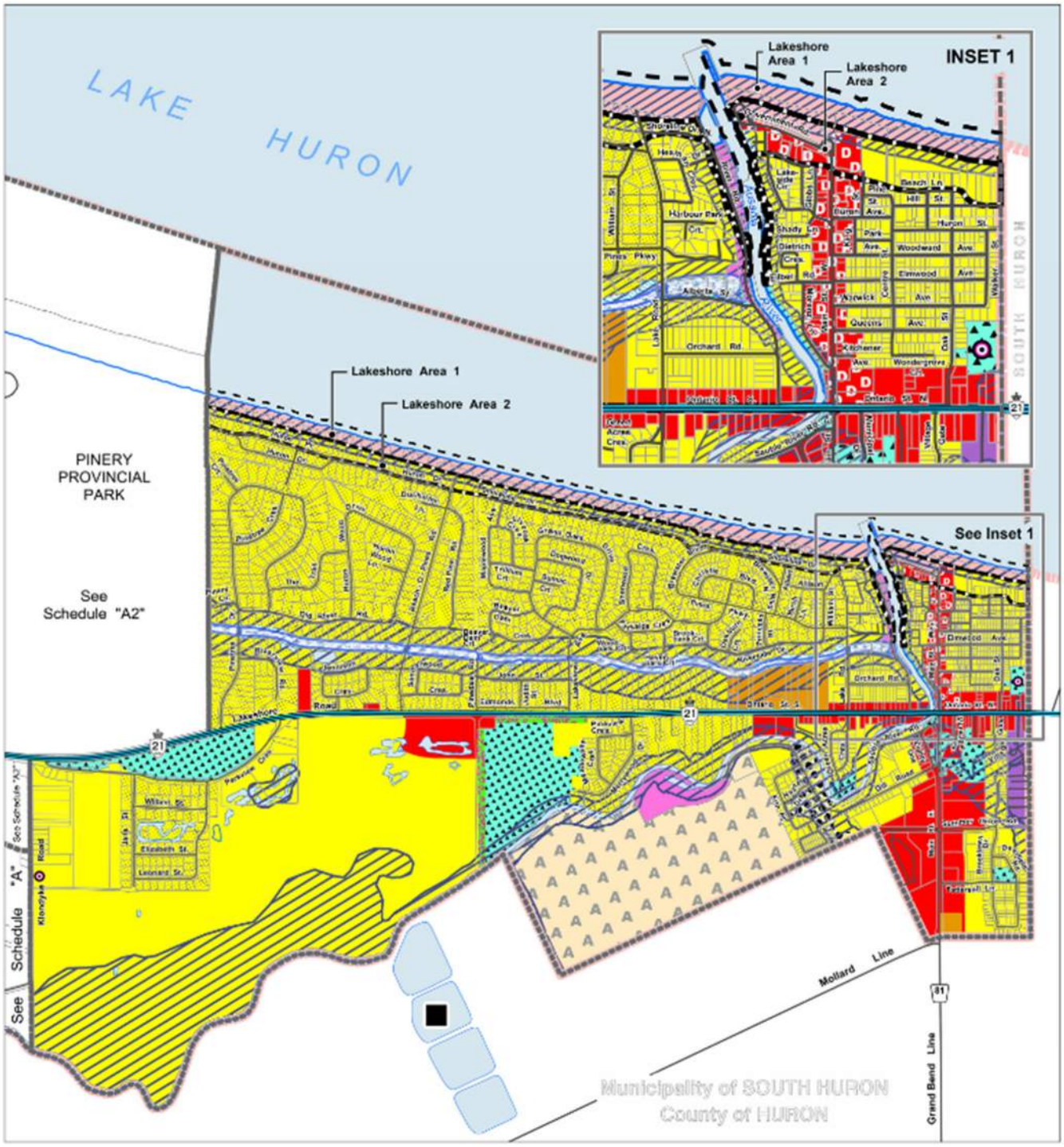


Figure 2 Excerpt from Municipality of Lambton Shores Official Plan Schedule "A1" (Grand Bend)

1.3 Study Overview

A Kickoff Meeting with the Technical Advisory Committee (TAC) was held January 18, 2023 (Minutes are attached in **Appendix A**).

The goal of this SWMP is to identify and address immediate and long-term stormwater system needs, specifically:

- Inventory and address stormwater infrastructure issues as part of the Village's overall asset management program.
- Aid in the development of a 'level-of-service' (LOS) for stormwater management with the Village.
- Develop an integrated Village-wide approach for water quality, water quantity, erosion control, preservation of hydrologic process through water budgets and the preservation and enhancement of the natural environment.
- Direct infill and redevelopment requirements about stormwater management criteria tied to the recommended Master Plan approaches.
- Maintain existing funding and forecast future funding requirements to implement the preferred stormwater approaches.
- Develop an implementation plan to direct the safe and effective management of stormwater runoff from the Village's urban areas while improving the ecosystem health and ecological sustainability of the receiving watersheds.

1.4 References

In the preparation of this Report, we have reviewed the following documents:

- Access Environment's Environmental Site Registry, https://www.lioapplications.lrc.gov.on.ca/Access_Environment [ECA Registry]
- Ausable Bayfield Conservation Authority Stormwater Management Policies and Technical Guidelines, prepared by Stantec, dated June 18, 2009 [ABCA Guidelines]
- Municipality of Lambton Shores Municipal Development and Servicing Standards, dated October 2021 [Design Guidelines]
- Shoreline Management Plan 2019, Ausable Bayfield Conservation Authority, prepared by Baird, dated February 28, 2019 [Shoreline Plan]
- The Asset Management Plan for The Municipality of Lambton Shores, prepared by PSD Research Consulting Software, dated November 2019 [Asset Plan]
- Municipality of Lambton Shores Official Plan, prepared by Lambton Shores, dated November 2015 (July 2020 Consolidation) [Official Plan]
- The Municipality of Lambton Shores Official Plan Schedule "A1" (Grand Bend), dated November 24, 2015 [Schedule A1]
- The Municipality of Lambton Shores Official Plan Schedule "C" Source Protection (Grand Bend), dated November 24, 2015 [Schedule C]

1.5 Study Objectives

The primary objective of the study is to lay out a strategy of stormwater management for future development areas and provide guidance on how to best achieve SWM objectives.

Given the high permeability of the underlying soils (primarily sand as noted by the TAC at the Kickoff Meeting), one important aspect of that strategy is infiltration. Consequently, it is recommended that future development employ a treatment train approach to stormwater management consistent with the MOE 2003 Stormwater Planning and Design Guide as well as the following documents:

a) Low Impact Development Stormwater Management Planning and Design Guide (TRCA/CVC, 2010 V1.0)

b) Stormwater Management Criteria (CVC, August 2012 V1.0)

c) Stormwater Management Criteria (TRCA, August 2012, V1.0)

d) Drainage Management Manual (MTO, 1997)

The Study follows the above documents while maintaining consistency with the current stormwater direction of the Township which promotes infiltration and further establishes parameters for the creation of a Stormwater User fee if desired. This could include incentive programs for implementing on-site controls and the use of Low Impact Development (LID) stormwater management practices.

The SWMMP includes a detailed assessment of the stormwater sewer (600mm or greater) for capacity for both existing conditions and future conditions resulting from areas of new development, infill and re-development. Further, this includes an overland flow route analysis to determine the areas at risk during a major storm event and make recommendations on how the overland flow route system can be improved. This task will use LIDAR data to develop a surface and identifying areas at risk for severe ponding during design storm events.

The SWMMP reflects and integrates the ongoing Asset Management Plan which includes long-range forecast and planning direction for many of the specific policy items and recommendations (i.e. ponds, OGS and stream rehabilitation).

The SWMMP will consider and create the SWM design standards to be incorporated into a Development Manual and consider the cost of maintenance and life cycles costs for SWM approaches. It will also provide direction with respect to existing easements, corridors and access agreements that may require renewals.

Future Development Requirements: Laying out the SWM criteria applicable to future development, along with design approaches to meet these criteria.

Long Term Maintenance Plans: For SWM assets to be assumed and maintained by the Town, to lay out expectations for inspection, operation, and maintenance, along with estimated costs.

Funding: Provide guidance on potential funding sources of said maintenance plans, sufficient for the Township to develop a stormwater user fee if desired.

Flooding: Provide suggestions on mitigating local flooding caused by insufficient stormwater system capacities.

1.6 Purpose of Project Files

The SWMMP document will be the key deliverable for the project for the implementation of future works. The document will provide the planning rationale and EA documentation required to proceed with detailed design of the recommended works. The SWMMP is expected to contain, at a minimum:

- Problem/Opportunity statement
- Documentation of all public, agency, and First Nations comments and responses

- Review of best practices and minimum design guidelines
- Rationale for evaluation criteria
- Summary evaluation of alternatives
- Summary of preferred solution prioritization
- Implementation, feasibility and staging recommendations
- Supporting technical memoranda (in appendices), including:
  - Results of field data investigation of stormwater management infrastructure
  - Maintenance program for individual stormwater assets
  - Recommendations for stormwater management policies to be developed by others
- Cost estimates
- SWM Pond Long-Term Maintenance Program
- Recommendations for Township Design Guidelines
- Mitigation measures and commitments
- Enough information to formulate a framework for stormwater user fee, if desired
- Operations and maintenance costs
- Prioritization of works
- Provide a basis for future investigations for the specific Schedule C projects identified within it, i.e. identify everything the Township needs for the first five years after study completion and complete all the site specific work required, including public consultation to meet Municipal Class EA requirements for Schedule A and B projects
- SWM Policy for integration into Development Manual
- Water Resources Monitoring Program.

The SWMMP document includes an Executive Summary that provides a clear picture of the recommendations, and a description of how those recommendations were arrived at.

2 Report Structure

This SWMMP report is divided into two main components:

1. Technical Elements
2. EA Master Plan Process

2.2 Technical Elements

The Technical Elements have been developed via a series of technical memos, which are included in the relevant appendices, and the reader is directed to them for details. A brief summary of each memo is provided in **Section 3**.

2.3 EA Master Plan Process

As the SWMP is considered the equivalent to a Schedule B under the MCEA Class process, Arcadis has approached this process in consultation with all stakeholders from early in the process. The detailed components and deliverables of the EA Master Plan Process are included in **Section 4**.

3 SWMMP Technical Elements

The following summarize the four technical memos (TMs) developed for this SWMMP. We direct the reader to the Appendices following this report for each TM.

3.1 Technical Memo #1 – Background Information

Technical Memorandum #1 (TM#1) presents a summary review of the background information and data collection efforts conducted for the Grand Bend SWMMP. TM#1 is the first in a series of technical documents for this study. The intent of TM#1 is to summarize available information related specifically to Grand Bend. The information compiled and reviewed will be used to support subsequent technical activities to characterize and assess the storm drainage system. Refer to **Appendix A** for TM#1.

Land use information, by parcel groupings, was provided by the County of Lambton for Grand Bend, in accordance with Schedule A1 of the 2015 Official Plan (last amended in 2022). All land use data was reviewed and confirmed. **Table 3-1** presents a summary of the land use classifications in Grand Bend. The total area of Grand Bend is approximately 882 hectares.

The prevalent land use for Grand Bend is residential, representing approximately 72% of the total contributing area. Agricultural lands amount to 8%, commercial 8%, and the remainder of the area is natural heritage, open space, mixed use, and other.

Table 3-1 Land Use Classification

STUDY AREA	TOTAL AREA (HA)	LAND USE CLASSIFICATION (%)							
		RESIDENTIAL	RESIDENTIAL GRAND BEND	AGRICULTURAL	COMMERCIAL	NATURAL HERITAGE	OPEN SPACE	MIXED USES	OTHER
Grand Bend	882	35.4%	36.8%	8.4%	7.7%	5.7%	4.7%	1.2%	0.2%

The GIS database did not include any storm maintenance hole information. Maintenance hole information typically includes ID, georeferenced location, inverts, and rim elevation. As-constructed drawings may provide some maintenance hole information to be incorporated into the GIS database. Remaining data gaps for the storm maintenance holes may require field surveys.

Table 3-2 and **Figure 3** highlights locations of all stormwater assets (sewers, maintenance holes, and catchbasins) with critical data gaps.

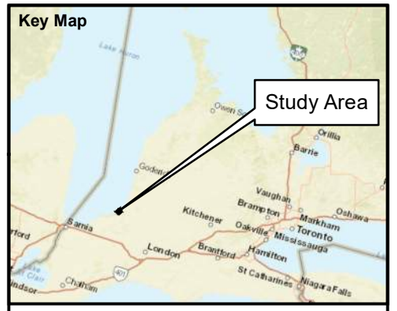
Table 3-2 Physical Sewer Network Features

STORM SEWER SYSTEM	SEWER LENGTH (M)	NO. OF MAINTENANCE HOLES	NO. OF CLOSED-BOTTOM CATCHBASINS	NO. OF OPEN-BOTTOM CATCHBASINS
Grand Bend	8,137[1]	101[2]	169[3]	122[3]

[1] Includes 3,175m of new subdivision storm sewers added. To be refined through detailed drawing review.
[2] Approximated based on storm sewer segments. To be confirmed through field investigations.
[3] Assumed and categorized based on proximity to storm sewers. To be confirmed through field investigations.

Data gaps were identified, and strategies were developed to resolve any major issues. Additional information was collected for the storm sewer network by Arcadis field staff.





Legend

- Village of Grand Bend Municipal Boundaries
- Missing Bridge/Culvert Inverts
- Missing SWM Pond Rating Curve
- Missing Storm Drainage Data
- Missing Catch Basin Data
- Missing Manhole Data
- Storm Sewer Missing Inverts

Figure 3
Storm Network Data Gaps

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	February 2023

NL 2023-02-13 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\2.3 Storm Sewer Network Data Gaps.mxd

3.2 Technical Memorandum #2 – Model Results

Refer to **Appendix B** for TM#2. The assessment of problem areas and development of solutions was facilitated by a detailed PCSWMM dual-drainage model of the existing stormwater system, which has been built by Arcadis (formerly IBI) to represent the Study Area. The existing Geographic Information System (GIS) data and background information was initially reviewed and documented in Technical Memorandum #1 (TM#1). Technical Memorandum #2 (TM#2) summarizes the baseline model development process, parameterization of the baseline dual-drainage model and estimate existing capacities of minor and major drainage system infrastructure under different design storms and identify problematic areas.

The baseline model found that the existing storm network is over capacity. In some areas, the HGL in the storm sewer is expected to reach the basement floor slab elevation in a 100-year storm event. The major system generally has adequate capacity, however in many areas drains to low points with insufficient outlets. In many of the modelled areas, the storm sewers are significantly over capacity with relatively low depth of flow on the road. Additional capture, including new catch basins, were investigated to improve the overland drainage and ponding on roads that may lead to surface flooding. Some of the storm sewers are over capacity and surcharging to the surface in minor events, so additional catch basins will not effectively capture ponding or significant overland flow. Future development and intensification can consider more rigorous stormwater management requirements. Potential solutions will focus on the use of inlet control devices (ICDs), overland drainage improvements. ICDs could be applied to areas where the minor system required additional capacity to alleviate the HGL and allow for additional inlet capacity at other locations.

Following the completion of the baseline model and assessment of the results, potential solutions to reduce flooding in the Study Area were developed in TM#3. Specific methodologies for solution development varied based on the servicing type present throughout the area.

It is expected through the model's application some anomalies may still be identified that will require further correction. Any future improvements through the application of the model were documented in TM#3 and provided to the Municipality.

3.3 Technical Memorandum #3 - Alternatives

Refer to **Appendix C** for TM#3. The purpose of this Technical Memo (TM#3) is to develop and evaluate alternatives to the problems identified in TM#2 for the Village of Grand Bend (the Village). This document outlines the existing deficiencies in the Village's stormwater infrastructure and proposes solutions for improvement. TM#3 will include the development of alternatives, performance information, costs, evaluation of alternatives, and the selection of a preferred alternative for each stormwater service area. The assessment of problem areas and development of solutions was facilitated by a PCSWMM dual-drainage model of the stormwater system.

This document identifies areas where the stormwater system falls short in handling runoff (i.e., flooding), erosion, and water quality. It aims to offer practical strategies that can be adopted to address these issues and enhance the Village's SWM capabilities.

By addressing these deficiencies and implementing effective solutions, the Village can ensure the long-term sustainability of its SWM system(s). This document provides a foundation for informed decision-making, aligning with the Village's commitment to environmental responsibility and community well-being.

Following completion of the baseline model, the Study Area was divided into several stormwater service areas generally bounded by the minor and/or major system drainage in this memo. The areas where the system is inadequate in handling runoff, erosion, water quality, and flooding are identified, and alternative solutions are considered to improve the storm level of service resulting in recommendations for each area through PCSWMM modeling.

The memo presents a range of practical mitigation options that the Village can consider addressing these deficiencies in the following sections. The focus of short-term infrastructure improvements is a conceptual Inlet Control Device (ICD) plan and other major overland system improvement recommendations. Long term solutions focus primarily on initiatives currently planned by the Village, including proposed sewer upgrades, along with some high-level opportunities that can be looked at in further detail.

Additionally, it will provide insights into the potential economic, environmental, and social benefits of implementing these solutions. The memo's scope includes recommendations for short-term actions and long-term strategies, as well as considerations for stakeholder engagement, regulatory compliance, and funding sources.

The baseline model found that the existing storm network is over capacity. In many areas, the HGL in the storm sewer is expected to reach the basement floor slab elevation in a 5-year storm event. The major system generally has adequate capacity, however in many areas drains to low points with insufficient outlets.

A proposed condition model was created, and possible solutions were assessed in the proposed development scenario. Future land use and climate change rainfall data was applied to the model to assess possible opportunities and constraints.

TM#3 **Appendix B** and **Appendix C** include supporting modelling files and a comparison of results of existing condition and proposed condition with improvements that were considered for recommendations. Summary of general findings within the area:

- Modelled results for the proposed conditions demonstrated some areas of the major system have potential capacity for additional flow to be conveyed overland, demonstrating that inlet control devices (ICDs) and overland drainage improvements should be applied.
- In many of the modelled areas, the storm sewers are over capacity with relatively low depth of flow on the road therefore the ICD’s can begin to limit the flow contribution to the minor system.
- ICDs are low cost, short-term infrastructure improvements limiting flow capture at least until ponding on the road has reached a critical depth or where there is an overland outlet.
- However, in some areas there are limited opportunities in the area for ICDs or overland drainage improvements. ICDs are only appropriate to improve the level of service for areas that have an adequate outlet with additional capacity such as a trunk sewer or overland spill route.
- Additional capture, including new catch basins, was investigated to improve the overland drainage and ponding on roads that may lead to surface flooding. As the minor system is in some areas is over capacity, there are limited opportunities to add catch basins without increasing flooding risks in the minor system. Many of the storm sewers are over capacity and surcharging to the surface in minor events, so additional catch basins will not effectively relieve ponding or significant overland flow.
- LID measures are recommended in areas with good infiltration to provide reduction in storm runoff volume.
- Larger, long term infrastructure improvements particularly at life cycle renewal provide opportunities to improve the system performance for many areas.
- Grading improvements to allow for an emergency spill route at specific locations and installation of minor system can be considered during redevelopment in the residential area where overland drainage issues are present.

High level Cost estimates for the short-term conceptual ICD & additional CB plan and long-term sewer upgrades plan has been proposed. Additional long-term recommendations for the study area are high-level and will require additional conceptual design and considerations to prepare an accurate cost estimate. Refer to **Table 3-3**.

Table 3-3 Cost Estimate

ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL PRICE	ENGINEERING COST
PRE	Mobilization/Demobilization	1	LS	$620,000.00	$620,000.00	n/a
1	Low Impact Development	18	Ea	$41,000.00	$738,000.00	$52,000.00
2	Install Inlet Control Devices	14	Ea	$24,250.00	$339,500.00	$24,000.00
3	Installation of CBs	259	Ea	$25,000.00	$6,475,000.00	$453,250.00
4	Gill Road – 375mm Storm	22	m	$1,250.00	$27,500.00	$5,500.00
5	Gill Road – 600mm Storm	58	m	$1,350.00	$78,300.00	$15,500.00
6	Gill Road – 675mm Storm	94	m	$1,500.00	$141,000.00	$28,000.00
7	Gill Road – 825mm Storm	280	m	$1,800.00	$504,000.00	$98,500.00
8	Ontario St N - 750mm Storm Sewer Upgrades	58	m	$1,700.00	$98,600.00	$19,500.00
9	Ontario St N - 825mm Storm Sewer Upgrades	146	m	$1,750.00	$255,500.00	$51,000.00
10	Main St W - 450mm Storm Sewer Upgrades	286	m	$1,300.00	$371,800.00	$72,000.00
11	Green Acres Crescent - 375mm Storm Sewer Upgrades	65	m	$1,150.00	$74,750.00	$14,500.00
12	Green Acres Crescent - 450mm Storm Sewer Upgrades	45	m	$1,200.00	$54,000.00	$10,000.00
				Sub-Total:	**$9,777,950.00**	**$843,750.00**

1 Assumes 7% of construction cost for ICDs/CBs, 20% for storm sewer upgrade.

* Assumes 487.5 mm storm pipe on average for item 2.

* Assumes 1 CB per 120m as per Lambton Shores spec

Costing Methodology

This estimate was built from the ground up. Arcadis went to market for local pricing for: equipment (30 & 20 MT Excavators, loader, ride on packer, hand packer, 4 MT “Swft Lift”, etc.) including floats, local subcontractor labour rates, all the piping materials (CBs, DCBS, ICDs, piping in all the different sizes, orifice plates, covers, risers, connectors, etc.), aggregates, soil disposal, trucking, etc. All this information was entered into Arcadis’ B2W bidding software in the appropriate line items.

The program allows Arcadis to build a crew and then select production for the various line items. For example: The piping replacement was assigned an average production of roughly 20m per day. This production rate was vetted by several Arcadis Superintendents, and an Arcadis Engineer who commonly works/ does oversight with contractors doing this type of work. Then based on the size/effort of the piping and local knowledge of Grand Bend, Arcadis altered the productions for each specific location.

Here are some examples:

- The Main St W location has us pricing replacing a smaller pipe at 450mm. A smaller pipe replacement would typically allow us to increase production over 20m per day. However, this area if very busy with vehicle & pedestrian traffic, has tight access, and has many local businesses located there. This will be one of the slower production zones. Therefore, Main St W has a slower production rate of 17.5m per day despite the small sized piping being replaced.
- Zones like Green Acres Crescent are also replacing smaller pipe, but due to the wide-open access, this production rate is 22m per day.

Since this is a high level budget, Arcadis believes that we have estimated this pricing on the conservative side.

Cost Assumptions

- This pricing has no costing associated with mandatory setbacks, no disconnections, or relocation has been included.
- Assumes an average of 20m of piping can be replaced and backfilled per day.
- With the current scope of work provided and due to current market volatility, pricing is budgetary and will need several final reviews upon firm pricing being provided.
- Material lead times determined at time of order subject to product availability.
- Minimal water management included in the pricing, as no borehole logs or data has been provided.
- All permits (if needed) completed by others. No costing for this has been included.
- Assumes no half load restrictions.
- This budget assumes high level restoration costs (hydroseeding, asphalt, concrete, decorative stones, landscaping beds/stones, bollards, vegetation, etc.).
- Quantities and prices rounded to the nearest even interval and shown as 2024 dollars.
- Total Price and Engineering Cost are separate overall values.

3.4 Technical Memorandum #4 – Implementation Plan

Refer to **Appendix D** for TM#4. Arcadis will identify all aspects of implementation for proposed source control, conveyance control, end-of-pipe controls, restoration measures and trunk sewer upgrades projects outlined in the preferred SWM strategy. The preferred solutions will be mapped and discussed relative to their evaluated effectiveness in meeting the evaluation criteria. Arcadis will also identify the requirements and mechanisms for the incorporation of the recommended stormwater technologies into new development, redevelopment, rehabilitation, or infrastructure replacement.

In addition to providing physical solutions in the SWM strategy, the project team provides guidance on how to incorporate recommended policies and preferred solutions into Municipality the Official Plan, Zoning By-Laws, development standards and other relevant regulations. The Implementation Plan directs the allocation of funding, the prioritization of works and includes the necessary supporting policies to permit the implementation of the recommended approaches to achieve the overall SWMP goals and objectives.

The primary objective of the Implementation Plan is to identify SWM measures required to address existing deficiencies, discussing the timing of the measures, and discuss potential funding opportunities.

Fact sheets and maps for each stormwater service area were developed that summarizes the existing conditions, and the preferred SWM solutions and other relevant facts related to the SWMMP.

Table 3-5 highlights the proposed implementation plan for the recommended solutions and their priorities and associated issues.

There are a number of issues that will need to be addressed with respect to the proposed implementation plan noted in **Table 3-4**.

Table 3-4 Implementation Plan for Recommended Solutions

ONTARIO STREET NORTH	Future Improvements	• ICDs to be added at MH locations of MH10, MH8, MH3, MH4. • Sewer Pipe C716, C248, C767 could be upsized.
	Dependencies / Triggers	• The sewer on Ontario Street is expected to surcharge to the surface, limiting the ability for additional catch basins. • The addition of ICDs offset the negative impact of additional flow in the storm sewers. • A proposed design of the sewers system has been completed. Upgrades to the storm sewer are dependent on the life cycle renewal.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • Upsizing the storm sewer on Ontario Street will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Ontario Street. • Where the sewer does not have capacity, minor upsizing of the storm sewer is recommended. • Additional catch basins without other improvements are not recommended as the sewers are surcharging to the surface. **CAVEAT**: As this street's storm sewers were just designed following standard engineering practice, the modeling analysis completed may be too conservative in its estimation of flooding. The plans for this area are therefore subject to future review before any remedial work is deemed necessary.
MAIN STREET WEST	Future Improvements	• ICDs to be added at MH locations of MH4_Main, MH5_Main, MH6_Main. • Additional catch basins (8 CBs) to be added at the low point close to MJ105*. • Sewer Pipe C663, C664, C666, C753, C752 to be upsized. * MJ = Major Junction in PCSWMM Model
	Dependencies / Triggers	• Upgrades to the storm sewer are dependent on the grading constraints. • The design of any upgrades to storm sewers should consider the impact of larger storm events (i.e., 100-year) • As there are no outlets for the major system on Main Street and sewers surcharging to the surface will increase ponding.
	Benefits	• ICDs do not result in a large increase of ponding on roadways. • Additional catch basins at low points allow for ICDs to be installed upstream without worsening surface flooding and ponding at low points. • Upsizing the storm sewer on Main Street West will benefit the minor system performance for the area.

Table 3-4 Implementation Plan for Recommended Solutions

	Recommendations	• ICDs are recommended for some areas of Main Street West. • Additional catch basins are recommended at low points where ICDs have been added upstream. • Where the sewer does not have capacity for additional catch basins, minor upsizing of the storm sewer is recommended.
GILL ROAD	Future Improvements	• ICDs to be added at MH locations of MH25-1 and MH26. • Additional catch basins (4 CBs) to be added at the low point close to MJ146*. • Sewer Pipe C343, C714, C344, C345, C764, C715, C346, C347 to be upsized. • *MJ = Major Junction in PCSWMM Model
	Dependencies / Triggers	• The storm sewer on Gill Road is over capacity during 5-year storm events and limits other improvements. • An ICD program is not recommended without other improvements.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • ICDs are a low-cost, short-term benefit to most properties in the area. • Upsizing the storm sewer on Rill Road will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Gill Road. • Upsizing the storm sewers to capture more flow with additional catch basins at low points is recommended. • Additional catch basins are recommended at low points **CAVEAT**: As this street's storm sewers were just designed following standard engineering practice, and no reports of flooding have been made, the plans for this area are therefore subject to future review before any remedial work is deemed necessary.
WILBERT STREET	Recommendations	• A pre-existing gravel pit retains stormwater. A local resident believes that the outlet may be blocked. The Village does not own it and consequently will not be addressing deficiencies.
HARBOURSIDE VILLAGE/ERIN PLACE	Recommendations	• The drainage ditch on Erin Place was constructed to divert water from the agricultural land to the south. It previously flowed through a natural ravine that existed prior to the subdivision being developed. The ditch itself is entirely on private property which limits the Municipalities ability to address it. • Lambton Shores staff have been working with the owner of the agricultural lands to create an alternative outlet for the water which may be completed under the Drainage Act or under some sort of other pre-development agreement.
GREEN ACRES CRESCENT	Future Improvements	• ICDs to be added at MH locations of J113, J101, J102**. • Sewer Pipe C712, C674 to be upsized. ** "J" indicates a minor system (pipe) junction in PCSWMM
	Dependencies / Triggers	• The downstream sewer is expected to surcharge to the surface, limiting the ability for additional catch basins.

Table 3-4 Implementation Plan for Recommended Solutions

	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • ICDs are a low-cost, short-term benefit to most properties in the area. • Upsizing the storm sewer will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Green Acres Crescent. • Where the sewer does not have capacity, minor upsizing of the storm sewer is recommended.
RESIDENTIAL AREAS WITHOUT SEWERS	Future Improvements	Consider installing proposed sewer system within the problematic area for a long-term development. Provide overland flow route by revise grading.
	Dependencies / Triggers	Significant surface ponding at low points without minor systems
	Benefits	Installation of storm sewer systems will benefit several properties with a history of flooding.
	Recommendations	The residential areas at the northwest of the Village have a history of flooding (See Figure 2-1-b) and installation of the storm sewer will improve the performance in these areas. Revise the grading and provide positive outlet for overland flow route to avoid ponding at low points within the areas. **CAVEAT**: Due to the expense and complexity of installing new storm sewers, any work should be considered in the context of municipal budgets and carried out during other scheduled road works.

The following **Table 3-5** summarizes the proposed SWM Criteria for the Village.

Table 3-5 SWM Criteria – Lambton Shores (Proposed)

PARAMETER	CRITERIA	ARCADIS SUMMARY
Water Quality and Erosion Control	The water quality target is the long-term average removal of 80% of Total Suspended Solids on an annual loading basis from all runoff leaving the proposed development site based on the post-development level of imperviousness. Provide for 24-48 hr detention of runoff from a 25mm storm. Given the size of a typical site plan development, the storage volumes involved may not be feasible to meet the detention time requirement; therefore, a minimum orifice plate size of 75mm is acceptable. Consultants should provide either a design for meeting the requirements or justification for why it is not achievable.	80% TSS Removal (Enhanced) Retain 25mm storm (if feasible)
Quantity Control	The 100-year storm is the level of protection for properties, where feasible, against surface flooding from ponding on streets, For development sites <2ha, the proponent may use a simplified approach such as the Rational Method / IDF curves to compute peak flows.	Control 100-year post to 5-year pre.

Table 3-5 SWM Criteria – Lambton Shores (Proposed)

PARAMETER	CRITERIA	ARCADIS SUMMARY
	The stormwater management system shall be designed by using MIDUSS (current version) or an alternate approved hydrologic model. The Developer's Engineer shall consult the Conservation Authority as to the appropriate storm distribution and duration to be used. The Developer's Engineer shall advise the Municipal Engineer in writing as to the Authority's requirements. The design of the stormwater management system shall be in accordance with the latest version of the "Stormwater Management Practices, Planning and Design Manual", as prepared by the Ministry of the Environment, Conservation and Parks.	
Water Balance	Post development infiltration should be matched to pre-development levels, where "pre-development" represents open field or "greenfield" conditions.	Post to pre on an annual basis
Discharge Criteria	The design storm for the minor systems shall be the 5-year storm for new local storm sewers. In some areas of the Municipality a 2-year storm may be used where approved by the Municipality. The major system shall be designed to convey the 100-year storm event.	Arcadis would recommend the 5-year sewer be used for all minor systems and 100-year as the overland criterion
Climate Change	Use existing IDF data be used to set pre-development hydrologic data, and the updated IDF data for analysis of post-development hydrologic performance.	

Lambton Shores does not currently have a detailed plan for proposed future municipal works related to road improvements; therefore, we recommend that in future, stormwater enhancements be evaluated in the context of the proposed road improvements to minimize both costs and potential local disruption to residents and selected accordingly.

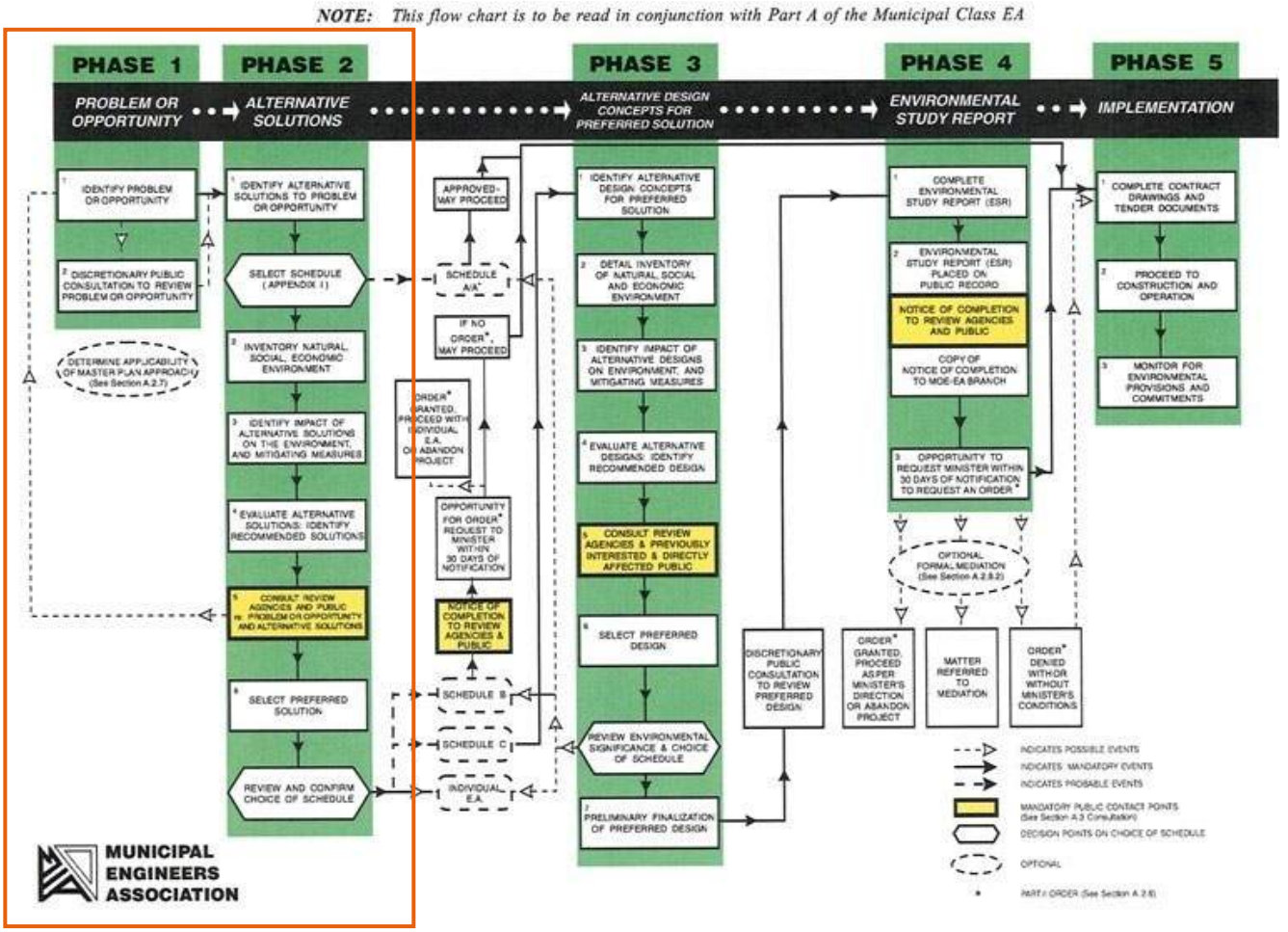
Areas requiring remedial action were identified in TM#3. These measures are essentially a combination of storm sewer upsizing, installation of additional catchbasins, and inlet control devices, alone or in combination.

Recommendations should be implemented when roadworks are planned by the Municipality. Recommendations include the remedial measures outlined in **TM#3 Section 2**.

4 Planning Context and EA Planning Process

As the SWMP followed the requirements for a Schedule B Class EA, we have outlined the relevant components of the EA Process below.

Stormwater Management Master Plans are considered the equivalent of a Schedule B under the MCEA Class EA process. This report follows Phases 1-2 of the process.



Arcadis' approach to completing a Class EA, was one of open involvement of all affected stakeholders early in the process. It was therefore undertaken to inform the public through multiple points of contact, exceeding the requirements under the Class EA process.

Notice of Commencement – A Notice of Commencement was published on the Municipality's website and in local newspapers. The notice was also directly mailed to the stakeholders list. A draft notice was developed immediately after contract award and will be provided to the Municipality for review at the project kick-off meeting. The notice will contain the problem/opportunity statement for the project and invite the public to comment and/or join the project mailing list. The costs associated with distribution were not included in our fee proposal and were covered by the Municipality.

Notices of Public Information Centres – The RFP required that two PICs be held through the course of this project. Notices of PICs were published approximately four weeks in advance of the PIC. The notice were also directly mailed to individuals and organizations on the stakeholder list. Arcadis prepared draft notices for review by Municipality staff. The Municipality were responsible for distribution and publishing the PIC notices.

Public Information Centres – Two PICs were held to provide the public with an opportunity to review the problem/opportunity statement, potential alternative solutions, our proposed evaluation criteria and, finally, our recommended preferred solution.

Opinions and information gathered from the PIC's served to guide the SWMP process into the final stages of alternative consolidation and prioritization.

Notice of Completion – A Notice of Completion will be developed to provide the public with a final opportunity to comment on the project. The Notice will indicate the conclusions of the master planning/EA process and will indicate where copies of the Master Plan can be reviewed. The Master Plan must be completed to document the Class EA process and must be filed for a 30-calendar day public review.

4.1 Stakeholders List

The following **Table 4-1** outlines the stakeholders list of people contacted at each phase of the project:

Table 4-1 Stakeholders List

AGENCY	CONTACT NAME/TITLE	EMAIL	TELEPHONE #
MECP	Sarnia District Sarnia MECP District Office Address: 1094 London Rd. Sarnia ON N7S 1P1	Email: sean.morrison@ontario.ca MEA.Notices.EAAB@ontario.ca	Toll Free: 1-800-387-7784 Tel: (519) 336-4030 Fax: (519) 336-4280
MNRF	Aylmer Work Centre Primary Address: 615 John St N, Aylmer, ON N5H 2S8 Mailing Address: 615 John St N, Aylmer, ON N5H 2S8	MNRF.Ayl@ontario.ca	General Inquiry: Tel: 519-773-9241 Fax: 519-773-9014
Ausable Bayfield Conservation Authority (ABCA) 71108 Morrison Line, RR 3 Exeter, Ontario, N0M 1S5 www.abca.ca	Geoffrey Cade Water and Planning Manager Mary Lynn MacDonald Co-DWSP Program Supervisor/Risk Management Official Donna Clarkson	gcade@abca.ca mmacdonald@abca.ca dclarkson@abca.ca	(t) 519.235.2610 (f) 519.235.1963 (t) 519.235.2610 x247
Department of Fisheries and Oceans (DFO)		info@dfo-mpo.gc.ca 'OP Habitat (DFO/MPO)' DFO.OPHabitat.MPO@dfo-mpo.gc.ca	
Municipality of South Huron	Don Giberson General Manager of Infrastructure and Development	Don Giberson dgiberson@southhuron.ca Rebekah Msuya-Collison clerk@southhuron.ca	519-235-0310 x226
Lake Huron & Elgin Area Water Supply Systems 235 North Centre Rd., Suite 200 London, Ontario N5X 4E7	Andrew J. Henry, P.Eng. (he/him) Director, Regional Water	ahenry@huronelginwater.ca John Walker jwalker@huronelginwater.ca Billy Haklander bhakland@huronelginwater.ca Erin McLeod emcleod@huronelginwater.ca	T: 519.930.3505 x1355

AGENCY	CONTACT NAME/TITLE	EMAIL	TELEPHONE #
MTO	Jason Ranger	Jason.Ranger@ontario.ca	
GB Chamber of Commerce	Sydney MacDonald	info@itstartsatthebeach.ca	
LAWSS	Clinton Harper	Clinton.harper@lawss.org	
First Nations (Attawandaron and Ojibwe/Chippewa)	The following **Table 4-2** outlines the First Nations stakeholders contacted at each phase of the project.		

4.2 First Nations Consultation

The following **Table 4-2** outlines the First Nations stakeholders contacted at each phase of the project:

Table 4-2 First Nations Stakeholders

COMMUNITY	CONTACT NAME/TITLE	OFFICE LOCATION	EMAIL	TELEPHONE #
Aamjiwnaang (Sarnia)	Cathleen O'Brien Environment Coordinator	Annex Building 978 Tashmoo Ave. Sarnia, ON N7T 7H5	cobrien@aamjiwnaang.ca	(t) 519-336-8410 x245 (f) 519-336-0382
Caldwell First Nation	Michelle McCormack Consultation Coordinator	14 Orange Street Leamington, ON N8H 1P5	ecc@caldwellfirstnation.ca	(t) 519-329-1946
Chippewas of Kettle and Stony Point	Rob Lukacs	6247 Indian Lane, ON N0N 1J1	consultation@kettlepoint.org	(t) 519-786-2125 (f) 519-786-2108
Chippewas of Nawash	Bill Jones Public Works Manager	135 Lakeshore Blvd Neyaashiinigmiing, ON N0H 2T0	bill.jones@nawash.ca	(t) 519-534-3266 x100
Chippewas of the Thames First Nation	Fallon Burch Consultation Coordinator	320 Chippewa Road Muncey, Ontario N0L1Y0	fburch@cottfn.com	(t) 519-289-5555 x251
Saugeen First Nation	Administration	6493 Highway 21	sfn@saugeen.org	(t) 519-797-3039
Walpole Island First Nation	Faye Johnson Governance Manager	117 Tahgahoning Rd.	faye.johnson@wifn.org	(t) 519- 627-1481 x264

4.3 EA Components

The following **Table 4-3** lays out the required/completed components and deliverables of the Master Plan Process.

Table 4-3 Master Plan Components

COMPONENT	DATE (YYYY/MM/DD)	FILE LOCATION (APPENDIX)
Notice of Commencement	2023/02/20	E
Notice of Public Information Centre #1	2023/06/27	E
Public Information Centre #1	2023/07/20	E
Technical Memorandum #1 – Background Information	2023/02/22	A
Technical Memorandum #2 – Model Results	2023/09/18	B
Technical Memorandum #3 - Alternatives	2024/08/13	C
Technical Memorandum #4 – Implementation Plan	2024/03/04	D
Notice of Public Information Centre #2	2024/03/19	E
Public Information Centre #2	2024/04/10	E
Council Presentation	2024/06/04	E
Stormwater Management Master Plan Report	2024/10/22	-

Appendix A

Technical Memorandum #1 – Background Information

Technical Memorandum #1

Background Information Review

Grand Bend Stormwater Management Masterplan

Prepared for Municipality of Lambton Shores
by IBI Group
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Appendix A – CLI-ECA SWM Facilities Summary

1 Introduction

Arcadis IBI Group (IBI) was retained by the Municipality of Lambton Shores to develop a Stormwater Management Masterplan (SWMMP) for the Village of Grand Bend.

Technical Memorandum #1 (TM#1) presents a summary review of the background information and data collection efforts conducted for the Grand Bend SWMMP.

1.1 Study Area Overview

Figure 1.1 shows the Village of Grand Bend within the Municipality of Lambton Shores. Grand Bend (Study Area) covers approximately 882 hectares and is generally defined by Walker Street in the north, Parkhill Creek in the east, Klondyke Road in the south, and Lake Huron in the west.

Grand Bend has a mix of land use including residential, agricultural, commercial, roadways, watercourses, open space, and lakeshore. Parkhill Creek is the main watercourse running through Grand Bend and ultimately discharges into Lake Huron to the west. The Old Ausable Channel is a disconnected historic channel transitioning to a pond-like ecosystem.

1.2 Objectives

The Village of Grand Bend (the Village) currently does not have a SWMMP; therefore, this effort will establish a much-needed road map for the Municipality to advance the development of a comprehensive stormwater management strategy to address current and future needs, provide acceptable levels of service, and meet regulatory requirements. The goal of this SWMMP is to identify and address immediate and long-term stormwater system needs, specifically:

- Inventory and address stormwater infrastructure issues as part of the Village's overall asset management program.
- Aid in the development of a 'level-of-service' (LOS) for stormwater management with the Village.
- Develop an integrated Village-wide approach for water quality, water quantity, erosion control, preservation of hydrologic process through water budgets and the preservation and enhancement of the natural environment.
- Direct infill and redevelopment requirements about stormwater management criteria tied to the recommended Master Plan approaches.
- Maintain existing funding and forecast future funding requirements to implement the preferred stormwater approaches.
- Develop an implementation plan to direct the safe and effective management of stormwater runoff from the Village's urban areas while improving the ecosystem health and ecological sustainability of the receiving watersheds.

TM#1 is the first in a series of technical documents for this study. The intent of TM#1 is to summarize available information related specifically to Grand Bend. The information compiled and reviewed will be used to support subsequent technical activities to characterize and assess the storm drainage system. The SWMMP process will follow the Class Environmental Assessment (EA) process for Master Plans (equivalent to a Schedule B) requiring a review of background information, preparation of hydrologic/hydraulic modelling tools, system assessment with a problem/opportunity statement, and the development and evaluation of projects/strategies to meet level of service objectives.

2 Data Collection

This section includes a review of the Group 1 and 2 data collection efforts, summarizing condition and availability of data and identifying significant data gaps. A summary of data gaps identified and strategies to address the gaps for Group 1 and 2 data is presented in **Section 5 – Data Gaps Summary & Next Steps, Table 5.1.**

2.1 Group 1 Data

Group 1 data was provided by the Village and includes physical information about the Study Area. All received Group 1 data has been reviewed for completeness and consolidated.

2.1.1 Land Use & Orthophotography

Land use information, by parcel groupings, was provided by the County of Lambton for Grand Bend, in accordance with Schedule A1 of the 2015 Official Plan (last amended in 2022). All land use data was reviewed and confirmed. **Table 2.1** presents a summary of the land use classifications in Grand Bend. The total area of Grand Bend is approximately 882 hectares.

The prevalent land use for Grand Bend is residential, representing approximately 72% of the total contributing area. Agricultural lands amount to 8%, commercial 8%, and the remainder of the area is natural heritage, open space, mixed use, and other. Land uses identified in Grand Bend are presented in **Figure 2.1**.

The Official Plan notes that the "Residential Grand Bend" designation is a special designation that limits redevelopment to the existing density to help preserve tree cover and natural features.

Table 2.1 Land Use Classification

STUDY AREA	TOTAL AREA (HA)	LAND USE CLASSIFICATION (%)							
		RESIDENTIAL	RESIDENTIAL GRAND BEND	AGRICULTURAL	COMMERCIAL	NATURAL HERITAGE	OPEN SPACE	MIXED USES	OTHER
Grand Bend	882	35.4%	36.8%	8.4%	7.7%	5.7%	4.7%	1.2%	0.2%

The 2016 aerial orthophotography was obtained through the Ontario Imagery Web Map Services for Grand Bend. The aerial information was used as a reference in confirming land use and populated areas, particularly for parcels further away from the Downtown area. Review of the aerial information shows that some parcel designations, specifically "Residential" and "Commercial" lands south of Pinedale Road and east of Lakeshore Road, may be intended as future land use and are currently empty lots.

IBI will request updated land use data from the Municipality that confirms existing versus future designation, as well as refined residential designation into low, medium, and high densities. This information is critical to accurately reflect the subcatchment imperviousness in the SWMMP model development.

2.1.2 Physical Storm Sewer Network

The Municipality maintains the physical data for the storm sewer system in Geographic Information Systems (GIS), which was provided to IBI in shape file format. A comprehensive review of the GIS database was completed to gain an understanding of the existing storm sewer system, as well as identify data gaps that should be addressed prior to model development.

Most existing storm sewers within Grand Bend are within the downtown area along Ontario Street and Main Street. Municipal sewer trunks collect storm runoff from adjacent streets and properties and discharge to Parkhill Creek and ultimately Lake Huron. Other existing storm sewers are within newer land developments, including Yacht Club Woods Condos, Gill Road Subdivision, Rice Subdivision, Merrywood Meadows, and Wee Lake Subdivision. **Figure 2.2** shows the existing storm sewer network in Grand Bend.

The GIS database defines the existing storm sewer network, including georeferenced sewer layouts and pipe geometry (size and length), as well as other relevant information such as material and construction date. However, pipe inverts and slope information are missing for all the storm sewer assets in the GIS database.

The Municipality provided servicing and stormwater management drawings to complement the GIS database. A high-level review of as-constructed drawings was completed at this stage to identify relevant information to the storm sewer network. Storm servicing plans are available for newer subdivisions with storm sewers. However, drawings were not available for municipal storm sewers, specifically along Ontario Street, Main Street, and other major roads. A more detailed review of available drawings will be required to document critical information, including pipe sizes, lengths, inverts, and slopes, and incorporate it into the GIS database. Remaining data gaps in the storm sewer network may require field surveys.

The GIS database also includes georeferenced catchbasin locations, but is missing catchbasin type and invert data. Several types of catchbasins are used within Grand Bend, including standard closed-bottom catchbasins (discharges to sewers), open-bottom catchbasins (infiltration), and landscape catchbasins. At this time, catch basin types were assumed based on proximity to existing sewers. Catchbasins in close proximity were assumed to be standard closed-bottom catchbasins connected to sewers. Meanwhile, catchbasins far from any existing sewers were assumed to be either open-bottom infiltration basins or connected to drywells and exfiltration trenches. Catchbasin types are recommended to be confirmed through field investigations.

The GIS database did not include any storm maintenance hole information. Maintenance hole information typically includes ID, georeferenced location, inverts, and rim elevation. As-constructed drawings may provide some maintenance hole information to be incorporated into the GIS database. Remaining data gaps for the storm maintenance holes may require field surveys.

Table 2.2 provides a summary of the main infrastructure related to the storm sewer system within Grand Bend. **Figure 2.3** highlights locations of all stormwater assets (sewers, maintenance holes, and catchbasins) with critical data gaps.

Table 2.2 Physical Sewer Network Features

STORM SEWER SYSTEM	SEWER LENGTH (M)	NO. OF MAINTENANCE HOLES	NO. OF CLOSED-BOTTOM CATCHBASINS	NO. OF OPEN-BOTTOM CATCHBASINS
Grand Bend	8,137[1]	101[2]	169[3]	122[3]

[1] Includes 3,175m of new subdivision storm sewers added. To be refined through detailed drawing review.

[2] Approximated based on storm sewer segments. To be confirmed through field investigations.

[3] Assumed and categorized based on proximity to storm sewers. To be confirmed through field investigations.

2.1.3 SWM Facilities

The Municipality provided two sources of information for stormwater management (SWM) facilities within Grand Bend; as-constructed drawings and Environmental Compliance Approvals (ECAs). Five (5) SWM facilities were identified within the boundaries of Grand Bend. **Table 2.3** provides a summary of the SWM facilities including location, type, and outlets. **Figure 2.2** shows the locations of existing SWM facilities in Grand Bend.

Table 2.3 SWM Facilities Inventory

ECA NO.	LOCATION	SWM FACILITY	CATCHMENT AREA (HA)	OUTLET	SOURCES
3025-76YRNC	Gill Road Subdivision	Wet Pond	4.7	Desjardine Drain	SWM Report, As-constructed Drawings & ECA
6121-8K5HF9	Rice Subdivision	Hybrid Pond	21.7	Walker Drain	SWM Report, As-constructed Drawings & ECA
6441-8QNKM5	Wondergrove Cottages Development	LID	0.8	Infiltration (perforated pipes)	SWM Report, As-constructed Drawings & ECA
1293-779NJ8	Wondergrove Subdivision	LID	0.6	Infiltration & Exfiltration (dry wells & trench)	SWM Report, As-constructed Drawings & ECA
8210-AWZPKJ	Village Crossing Phase II	Oil-Grit Separator	2.0	Simmons Drain	As-constructed Drawings & ECA

SWM reports, drainage area plans, as-constructed drawings and ECAs are available for the stormwater management ponds in Gill Road Subdivision and Rice Subdivision. Drainage areas and stage-storage-discharge information (rating curves) will be extracted for modelling purposes. Further ECA details for the ponds are included in **Appendix A**.

A SWM report and storm design drawings were provided for the Low Impact Developments (LIDs) within the two Wondergrove Subdivisions. The report, drawings, and corresponding ECAs provide adequate information regarding inverts, general layout, sizing, and capacity.

As-constructed drawings and ECA documentation are available for the Oil-Grit Separator in Village Crossing Phase II Subdivision. The corresponding ECA provides adequate information regarding model, sizing, and capacity.

Note: A small privately owned/operated SWM pond at the Sobey's property on Main Street East is assumed to collect storm runoff from all the onsite catchbasins. This SWM facility and its drainage area is not included in the inventory and will not be part of the study.

2.1.4 Bridges & Culverts

The Municipality provided a GIS shape file of the bridges and culverts within Grand Bend. The GIS file includes georeferenced locations of the structures, but does not include dimensions or elevation data. There are six (6) culverts and one bridge within the Study Area.

The Municipality also provided 2021 OSIM inspection reports for all the culverts and bridge, which include descriptions, dimensions, and condition assessments. However, the inspection reports do not include inverts and elevation data. In general, all six (6) culverts are in good to fair condition and do not require replacement. The Ontario Street bridge is in fair condition, but the bridge is slated for replacement in 2023/2024 due to some concerns regarding the bridge deck.

Table 2.4 Bridges & Culverts Inventory

ROAD NAME	STRUCTURE TYPE	WATERCOURSE
Pinetree Drive	CSP Ellipse Culvert	Old Ausable Channel
Beach O'Pines Road	CSP Ellipse Culvert	Old Ausable Channel
Lakeview Avenue	CSP Ellipse Culvert	Old Ausable Channel
Gill Road	Rectangular Culvert	Desjardine Drain
Main Street West	Rectangular Culvert	Walker Drain
Sauble Road	Arch Culvert	Walker Drain
Ontario Street	Rigid Frame Bridge	Parkhill Creek

Culvert and bridge inverts and elevation data may be required to incorporate the hydraulic structures into the SWWMP hydraulic model. This will depend on the type of modelling and software selected in later stages of the study. Hydraulic models were requested from the Ausable Bayfield Conservation Authority (ABCA) for Parkhill Creek and the Ausable Channel. ABCA's hydraulic models may include the inverts and elevation data required for culverts and bridges. Data gaps will be confirmed upon receipt and review of the models.

2.1.5 Digital Elevation Model & Topographic Data

The Municipality provided 5m contour data and digital elevation points at 100m intervals. The topographic data was deemed inadequate for the purposes of this study. In turn, IBI Group obtained 0.5m LiDAR data from the Ontario GeoHub web map services.

The LiDAR data provides an adequate base to generate flow patterns and directions in the rural and urban landscapes of Grand Bend. This information will be used as the basis for surface modelling. Any field investigations undertaken (for the sewer network) may confirm critical low points in the Study Area to confirm the LiDAR data and overland flow patterns seen in the digital information. However, specific field surveys are not recommended at this time. A detailed presentation of the topography of Grand Bend will be provided following completion of surface modelling.

Impervious surface mapping is not available. As such, impermeable features, such as roadways, sidewalks, driveways, and walkways are not delineated with closed polygons, making automated GIS analysis problematic. This information is critical to the delineation of pervious and impervious surfaces and the definition of drainage features important to hydrologic/hydraulic modelling. Further details related to topographic data processing will be discussed in future technical memos.

2.2 Group 2 Data

Other relevant data has been identified for Grand Bend from internal Municipal resources and outside agencies. This information includes previous studies, design guidelines, regulatory documents, and new developments. The following section presents a summary of Group 2 data identified, compiled, and reviewed.

2.2.1 Background Reports & Documents

Table 2.5 presents a summary of reference documents (technical guidelines, standards, and reports) identified and considered relevant to the Study Area (Grand Bend). Technical standards and SWM guidelines will be considered in any proposed upgrades to the stormwater management system of Grand Bend. Given active development and planning in the area, current SWM control requirements will also be considered and incorporated into the SWMMP strategy and policy recommendations.

Table 2.5 Background Reports & Documents Relevant to Grand Bend

REPORT	BRIEF DESCRIPTION
Ausable Bayfield Conservation Authority Stormwater Management Policies and Technical Guidelines, Stantec, 2009	General policies and technical guidelines for the application of stormwater management measures in new developments as well as retrofit projects. This includes SWM controls such as flooding, quantity control, quality control, water balance, streambank erosion control, OGS, SWM facilities, and climate change.
Municipality of Lambton Shores Municipal Development and Servicing Standards, 2021	Servicing standards for the design and construction of storm sewers in the Municipality of Lambton Shores. Relevant information includes minor and major conveyance criteria and quantity and quality control requirements for land developments.
Asset Management Plan for The Municipality of Lambton Shores, PSD Research, 2019	Asset management plan includes an inventory and condition assessment of storm sewer assets and bridges and culverts relevant to the Grand Bend SWMMP. The report also includes a projection of general growth and development trends.
Shoreline Management Plan ABCA, Baird, 2019	Delineation of shoreline hazards and shoreline management approaches. Report includes geology information, shoreline characteristics, lake levels, climate change, shoreline hazards (erosion and flooding), and management approaches.
Municipality of Lambton Shores Official Plan, Lambton Shores, 2015 • Schedule A1 (Grand Bend) • Schedule C (Source Protection)	The Official Plan outlines the municipality's general policies for future land use and development. Schedule A1 provides the most up-to-date parcel-based land use categories, as well as natural heritage features. Schedule C mapping shows areas of source water significance, including IPZ, HVA and SGRA areas.
Consolidated Linear Infrastructure – Environmental Compliance Approval for Lambton Shores Municipal Stormwater System	CLI-ECA includes asset inventories and summaries of the SWM systems in Lambton Shores, including Grand Bend. The document includes data on storm sewers lengths and SWM facilities. Additional information on relevant SWM facilities within Grand Bend has been extracted and attached in Appendix A.
Access Environment's Environmental Site Registry	Website used to extract relevant ECAs for stormwater management facilities within Grand Bend. ECAs provide location and technical details of the SWM facilities proposed / approved.

2.2.2 Growth, Development & Improvements

A list of ongoing and future developments was provided by the Municipality. **Table 2.6** summarizes the ongoing and future developments in Grand Bend. **D**raft plans and ECA documentation will be required for future developments to update future conditions (land use, sewers, and SWM facilities) in the SWMMP hydrologic/hydraulic model.

Table 2.6 Ongoing & Future Developments

DEVELOPER	LOCATION	LAND USE	STATUS
Rice Development Corp	Main St East	Commercial / Multi-residential	Draft Approved Block
Rice Development Corp	Main St East	Commercial	Draft Approved Block
Rice Development Corp	Deerfield Road	Single Detached	Draft Approved 14 Lots
Rice Development Corp	Lois Court	Single Detached	Final Approved 11 Lots
Rice Development Corp	75 Main St East	Gas Station	Under Construction
Rice Development Corp	Main St East	Commercial	Draft Approved Block
Rice Development Corp	Tattersall Lane	Multi-residential	Draft Approved Block
Grand Bend Dev Corp	74 Main Street East	Commercial	Draft Approved Block
Grand Bend Dev Corp	74 Main Street East	Commercial	Draft Approved Block
Grand Bend Dev Corp	74 Main Street East	Commercial	Draft Approved Block
Grand Bend Dev Corp	Del Sol Way	Low, Medium, or High Density	Draft Approved Block
Grand Bend Dev Corp	Del Sol Way	73 Townhouse Units	Final Approved Condo 73 Units
Lambton Shores	Municipal Drive	Unknown Redevelopment	No Plans
Private	9 Oak St	Multi-residential	Interest expressed
Aho	24 Huron St	Separate lots	Separate lots exist
Level Contracting	61 Centre St	Infill lot	Provisional Consent
MFL Properties	17 Pine St	Triplex Dwelling	Awaiting OLT Decision
Blumas	24 Government St	Single Detached	Final Approved 5 Condo Units
Gabe Valente	63 Main St	Commercial / Residential Mix	Site Plan Approved
Top Shelf	62 main St	Commercial / Residential Mix	Site Plan Approved
Desjardine	77-91 Ontario St S	Retirement Home	Site Plan Approved
Pym/Bousfield	244-260 Ontario St S	Single Detached	No Plans
Brock Dev	9827 Pineview Cr	Single Detached	Studies Underway
Drewlo – Southbend	Southbend	Low, Medium Density	Lapsed Draft Approval
Merrywoods	354 Ontario St S	Low Density	No Plans

2.2.3 ABCA & Regulatory Features

Regulatory information will be helpful with the development and selection of alternatives. Details of collected information are described in the sections below.

Regulatory Flood Limits

The ABCA provided regulatory flood limits for Parkhill Creek and Walker Drain within the Study Area. **Figure 2.4** shows the Regulatory Floodplain limits within Grand Bend. This information will indicate the approved standard used to define the limit of the flood plain for regulatory purposes. Furthermore, there are some flood susceptible residential properties located within the regulation limits, specifically within the Gill Road and Rice Subdivisions near Desjardine, Walker and Simmons Drains.

Natural Heritage & Source Protection Features

Schedules A1 and C of the Official Plan identify areas of significant wetlands, general regulation areas, significant woodlots, intake protection zones (IPZ), highly vulnerable aquifers (HZA), and significant groundwater recharge areas (SGRA) within Grand Bend. The natural heritage features are mainly south of Lake Road and alongside the watercourses. Meanwhile, almost the entire Study Area is considered an HVA and there are large SGRAs in the Downtown area and west of Lakeshore Road. **Figures 2.5 & 2.6** show the locations of natural heritage features and source water protection in Grand Bend.

2.2.4 Geotechnical & Hydrogeological Information

Given the high permeability of the underlying soils (primarily sand as noted by the Municipality), infiltration will be an important aspect of the stormwater management strategy. Hydraulic properties and percolation rates of soils throughout Grand Bend are required for modelling subcatchments and low impact development.

The Municipality provided available geotechnical reports, specifically within the northern downtown Grand Bend area, that include soil stratigraphy and groundwater level information. A high-level review of the reports determined that silty clay till is the prevalent soil layer within the area. However, soil stratigraphy may vary significantly throughout Grand Bend. Further geotechnical investigations may be required at later stages of the study, specially at locations of proposed low impact developments.

3 Preliminary Evaluation Criteria

The following preliminary evaluation criteria were established by consolidating the Municipality and ABCA stormwater management objectives with the 2019 Asset Plan Levels of Service (LOS) and additional recommended LOS. In conjunction with advanced dynamic modelling, these criteria will help identify constraints and deficiencies in the existing storm drainage system that may be overlooked by municipal design standards.

Table 3.1 Preliminary Evaluation Criteria

TECHNICAL LEVEL OF SERVICE	RECOMMENDED SWMMP EVALUATION CRITERIA
Percent of properties resilient to a 100-year storm event	• Storm sewer hydraulic grade line should remain 2.0m below the ground elevation during the 100-year event. • Surface flooding should not extend beyond the municipal right-of-way. • Depth of surface flooding should not exceed 300mm or 150mm where there is a reverse driveway.
Percentage of Municipal storm system resilient to a 5-year storm	• The minor (sewer) storm system should not surcharge under the 5-year event.
Percent of municipality with stormwater quality controls	• SWM facilities and water quality controls to satisfy 80% TSS removal for developed areas.
Percent of storm sewers and stormwater assets in poor or very poor condition	• Routine inspection and maintenance programs to identify and replace poor assets.

4 Relevant Stakeholders

A preliminary list of stakeholders was prepared for consultation as part of the Class EA Master Plan process. During the full course of the project, the project stakeholder list will be maintained, and interested parties identified by the Municipality, approval agencies, and Indigenous Communities will be added for future mailings.

- Indigenous Communities including: Aamjiwnaang (Sarnia), Caldwell First Nation, Chippewas of Kettle and Stony Point, Chippewas of Nawash, Chippewas of the Thames First Nation, Saugeen First Nation, and Walpole Island First Nation
- Lambton County, Municipality of South Huron
- Ausable Bayfield Conservation Authority
- Department of Fisheries and Oceans
- Ministry of Transportation
- Ministry of Natural Resources
- Ministry of Environment, Conservation and Parks
- Utilities companies that may be impacted by proposed works
- Any interested community members

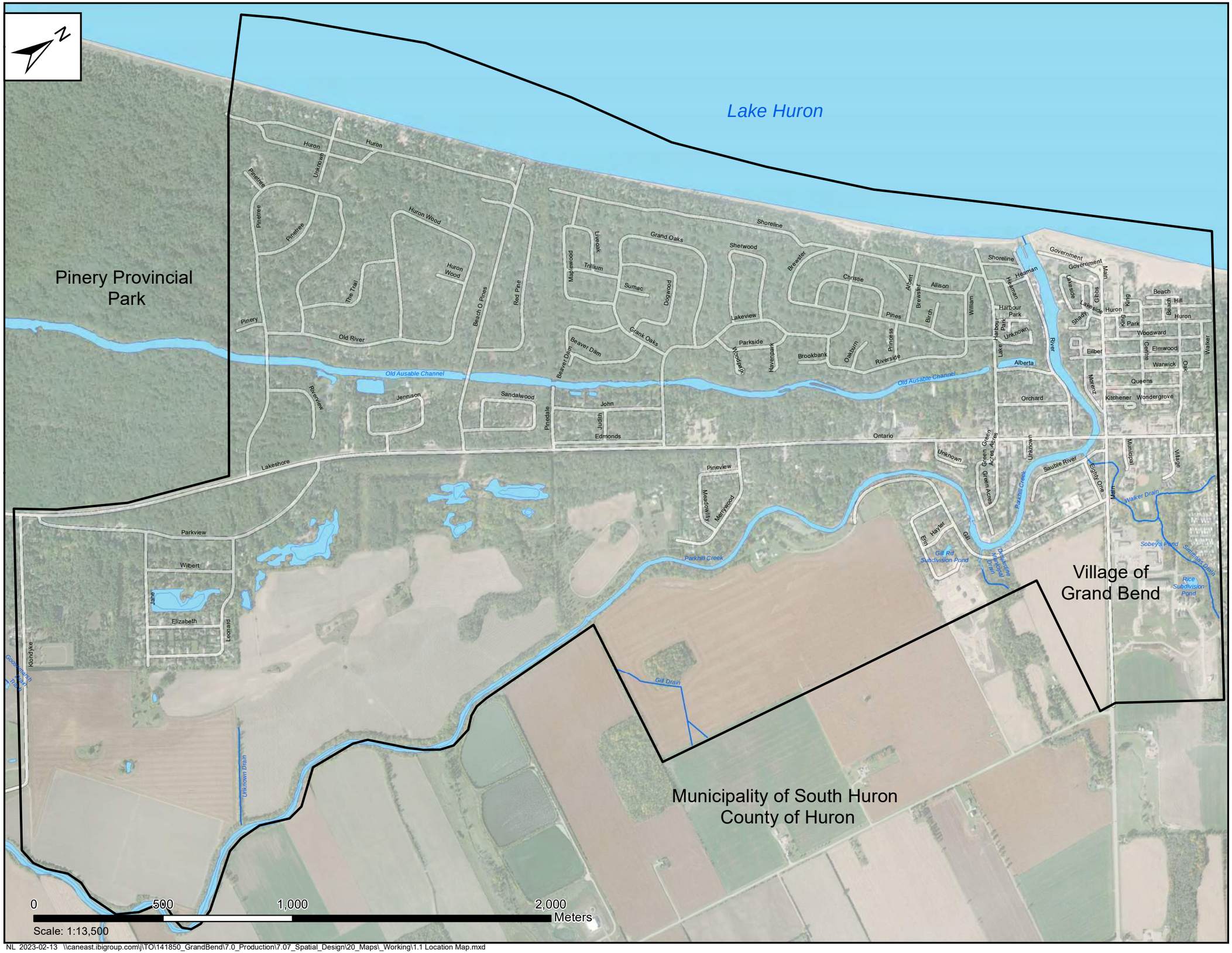
5 Data Gaps Summary & Next Steps

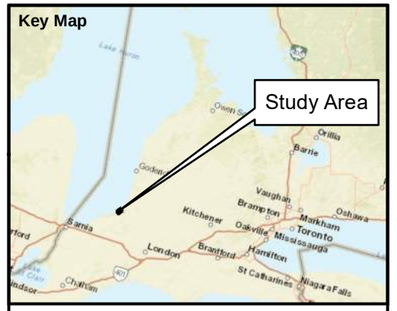
TM#1 presents a summary of the data collection efforts. Two main groups of information have been identified for the study incorporating physical attributes of the storm sewer system and relevant reports and regulatory documents. Data has been provided from the Municipality and ABCA.

Data gaps have been identified and strategies have been developed to resolve any major issues. **Table 5.1** summarizes the data gaps and resolutions for this study.

Table 5.1 Data Gap Summary & Recommended Resolution Strategies

CATEGORY	DATA GAPS	RESOLUTION STRATEGY
GROUP 1 DATA		
Land use	• Parcel designations inconsistent with latest orthophotography. May be intended for future development.	• Municipality to provide updated land use that confirms existing versus future designation. Further categorization of residential designation to low, medium, and high density.
Physical Storm Sewer Network	• Missing pipe inverts for all storm sewers. • Missing catchbasin types. • Maintenance hole information is not available. Location and rim elevations required.	• Detailed review of as-constructed subdivision drawings and transfer of critical data (inverts, size, slope) to GIS database. • Field survey required for remaining missing invert data, specifically municipal storm sewers. Total length of sewers anticipated for survey is approximately **4,394 metres**. • Recommended field investigation to confirm assumed closed-bottom catchbasins near storm sewers. Total number of catchbasins to be investigated is 98. • Recommended field survey of storm maintenance holes in conjunction with sewer survey.
SWM Facilities	• Stage-storage-discharge data (rating curves) is not available	• Municipality to obtain SWM reports for Gill Road and Rice Subdivision ponds from ABCA or developers.
Bridges & Culverts	• Missing invert and elevation data for all structures	• Hydrologic models were requested from ABCA. Models will likely include invert and elevation data for water crossings.
DEM & Topographic Data	• Impervious surface mapping is not available	• Impervious surface polygons to be created by assumed fixed width for the road network. Parcel based imperviousness will be assigned based on land use and sample parcel analysis.
GROUP 2 DATA		
Growth, Development & Improvements	• ECA and Draft plans for ongoing and future developments required.	• Obtain ECA and Draft Plans for future developments to incorporate land use and SWM facilities into future model.
Geotechnical & Hydrogeological Information	• Hydraulic properties and percolation rates of soil data are not available.	• Municipality to obtain any geotechnical reports for areas within Grand Bend. Geotechnical investigations may be recommended at later stages for low impact developments.





Legend

Village of Grand Bend Municipal Boundaries

Figure 1.1
Grand Bend Location Map

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	February 2023

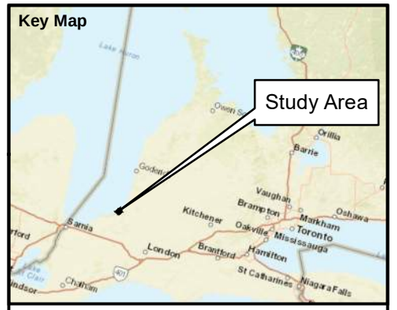
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Lake Huron

Pinery Provincial Park

Municipality of South Huron
County of Huron

0 500 1,000 2,000
Meters
Scale: 1:13,500



Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies

Official Plan - Designations

- Agricultural
- Commercial
- Harbour & Marina
- Natural Heritage
- Open Space
- Residential
- Residential - Grand Bend
- Residential - Special Policy Area
- Mixed Use
- Wetland

Figure 2.1
Land Use Classification

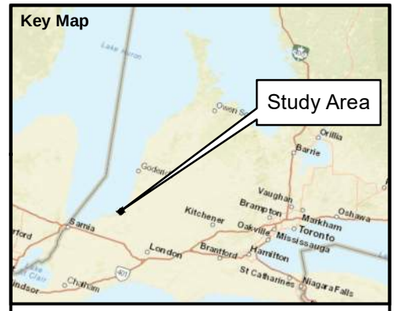
Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	February 2023

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Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies

Storm Catch Basin Type

- Close-Bottom Storm Catchbasin
- Open-Bottom Infiltration / Landscape Storm Catchbasin

Storm Management Network

- Stormwater Sewer
- Drainage Ditch
- Low Impact Development

Figure 2.2
Storm Service Types

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	February 2023

NL 2023-02-13 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\2.2 Storm Service Types(1).mxd

Lake Huron

Pinery Provincial Park

Old Ausable Channel

Parkhill Creek

Gill Drain

Unknown Drain

Walker Drain

Simmons Drain

Gill Rd Subdivision Pond

Subdivision Pond

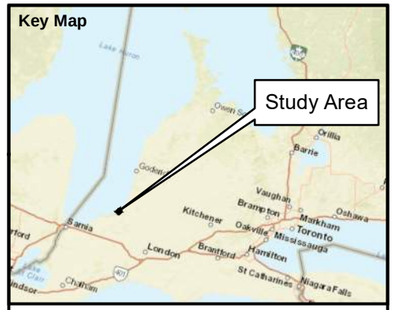
Municipality of South Huron
County of Huron

0 500 1,000 2,000 Meters

Scale: 1:13,500

NL 2023-02-13 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\2.3 Storm Sewer Network Data Gaps.mxd

Key Map



Legend

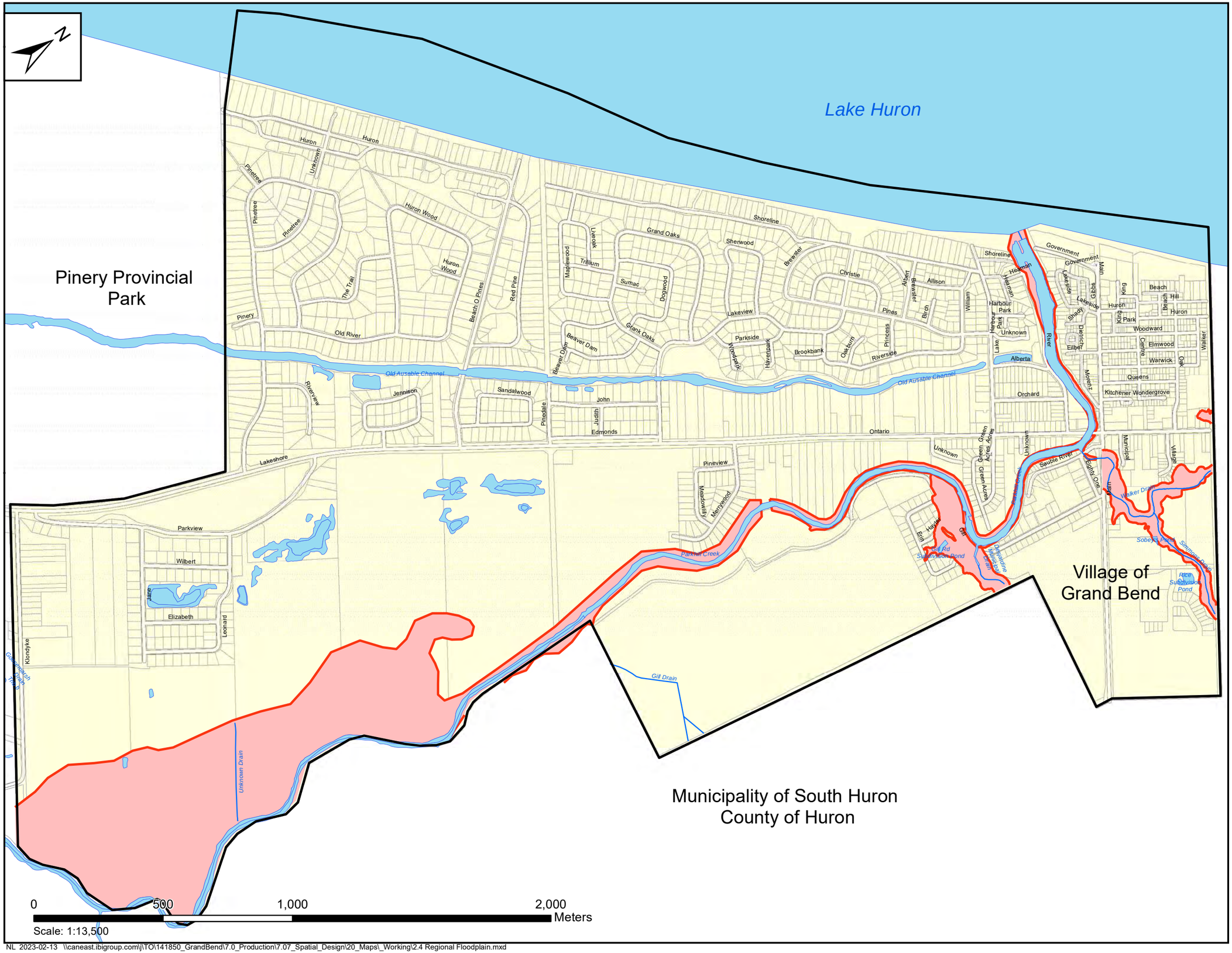
- Village of Grand Bend Municipal Boundaries
- Missing Bridge/Culvert Inverts
- Missing SWM Pond Rating Curve
- Missing Storm Drainage Data
- Missing Catch Basin Data
- Missing Manhole Data
- Storm Sewer Missing Inverts

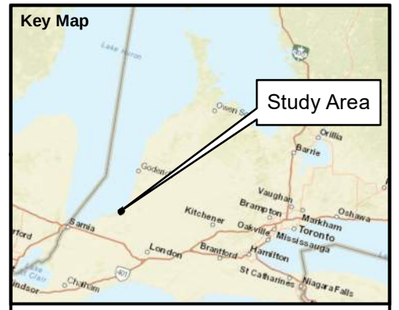
Figure 2.3
Storm Network Data Gaps

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	February 2023





Legend

- Village of Grand Bend Municipal Boundaries
- Regional Floodplain
- ABCA Regulation Limit

Figure 2.4
Regional Floodplain and Regulation Limits

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	February 2023

NL 2023-02-13 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\2.4 Regional Floodplain.mxd

The Municipality of
Lambton Shores
OFFICIAL PLAN
SCHEDULE "A1" - Natural Heritage
(Grand Bend)

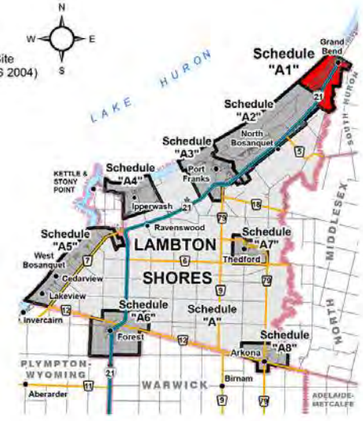


LEGEND

- Assessment Parcels
- Rivers - Streams - Drainage
- Roads
- County Road
- Provincial Highway
- Railroad
- Waterbodies
- Sewage Treatment Works
- Active or Former Waste Disposal Site (Anderson Dataset : Lambton GWS 2004)
- Municipal Boundary
- Schedule Inset Boundary

Official Plan - Designations

- Wetland (MNR - OWES)
- General Regulation Area
- Lakeshore Area 1
- Lakeshore Area 2
- Significant Woodlot (LCNHS)



Reference

Disclaimer: These digital mapping products have been produced on the County of Lambton's Geographic Information System. Data provided herein is derived from sources with varying levels of accuracy and currency. This is not a survey product. The County of Lambton disclaims all responsibility for the accuracy or completeness of information contained herein. The County of Lambton assumes no responsibility for errors arising from use of these digital mapping products.

The Official Plan information contained herein is current as of the last recorded amendment noted under "Official Plan Amendments".

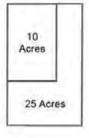
- Cadastral database is current to June 2013.
- Wetlands database is current to June 2014 (MNR)
- General Regulation and Hazard Areas are determined by local Conservation Authorities and are Subject to Change (Dec 2013).

Projection: UTM NAD 83 Zone 17

COUNTY OF LAMBTON
Planning and Development Services, January 2019

www.lambtononline.ca

Area Estimator



Notes: Area Estimator generalized blocks (shown at left) are scaled to represent typical area measures.

Area Estimator is properly scaled for Main Map ONLY.

Acre area measures can be converted to hectares (ha) by dividing by (2.471).



0 250 500 1,000 Metres

0 500 1,000 2,000 3,000 4,000 Feet

The Municipality of
Lambton Shores
OFFICIAL PLAN
SCHEDULE "A1" - Natural Heritage
(Grand Bend)

to By-law No. 106 of 2015

Passed this 24 day of Nov ,2015

Bill Weber, Mayor

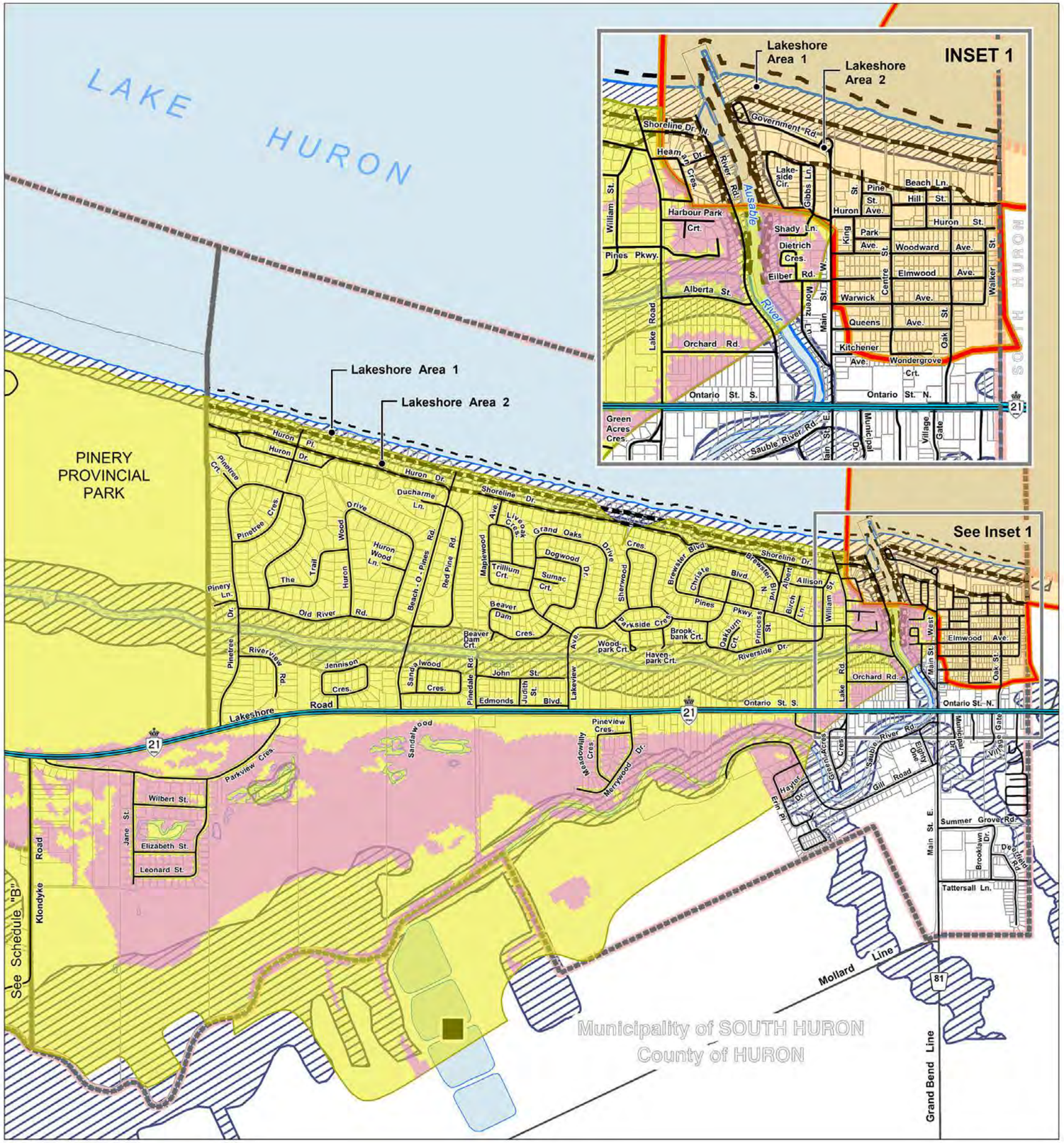
Carol McKenzie, Clerk

Official Plan Amendments

OPA # xx, xxxxxx xx, 20xx

COUNTY OF LAMBTON

The Municipality of
Lambton Shores
OFFICIAL PLAN
SCHEDULE "C"
Source Protection
(Grand Bend)





LEGEND

- Assessment Parcels
- Rivers - Streams - Drainage
- Roads
- County Road
- Provincial Highway
- Railroad
- Waterbodies
- Sewage Treatment Works
- Active or Former Waste Disposal Site (Anderson Dataset : Lambton GWS 2004)
- Municipal Boundary
- Schedule Inset Boundary

Official Plan - Designations

- Wetland (MNR - OWES)
- General Regulation Area
- Lakeshore Area 1
- Lakeshore Area 2

Source Protection Plan

- IPZ - (Type: IPZ2)
- HVA - Highly Vulnerable Aquifer
- SGRA - Significant Groundwater Recharge Area

Reference

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The Source Protection information contained herein is current as of the last recorded amendment noted under "Source Protection Amendments".

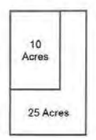
- Intake Protection Zone (IPZ) Data current to October 2013.
- Highly Vulnerable Aquifer (HVA) Data current to October 2013.
- Significant Ground Water Recharge Area (SGRA) Data current to October 2013.
- Cadastral database is current to June 2013.
- Wetlands database is current to June 2014 (MNR).
- General Regulation and Hazard Areas are determined by local Conservation Authorities and are Subject to Change (Dec 2013).

Projection: UTM NAD 83 Zone 17

COUNTY OF LAMBTON
Planning and Development Services, January 2019

www.lambtononline.ca

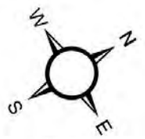
Area Estimator



Notes: Area Estimator generalized blocks (shown at left) are scaled to represent typical area measures.

Area Estimator is properly scaled for Main Map ONLY.

Acre area measures can be converted to hectares (ha) by dividing by (2.471).



0 250 500 1,000 Metres

0 500 1,000 2,000 3,000 4,000 Feet

The Municipality of
Lambton Shores
OFFICIAL PLAN
SCHEDULE "C"
Source Protection
(Grand Bend)

to By-law No. 106 of 2015

Passed this 24 day of Nov ,2015

Bill Weber, Mayor

Carol McKenzie, Clerk

Source Protection Amendments

SP # xx, xxxxxx xx, 20xx

Appendix A

CLI-ECA SWM Facilities Summary

7297 – SWM Wet Pond (Erin place Subdivision)

Location	43.30538, -81.75617
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill Subwatershed
Receiver of discharge	Discharges through Desjardine Drain to Ausable River and Lake Huron
Outlet location	43.30599, -81.75488
Catchment Area	4.7 hectares
Level of Treatment for suspended solids	Level 1 Enhanced treatment for 80% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	The detention wet pond has a permanent pool volume of 735 m3, an active storage volume of 1,600 m3 complete with inlet structure, sediment forebay and outlet structures.
Design Storm	Quantity: 100 yr storm; Quality: 2-yr storm
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 3025-76YRNC, Issue Date: September 19, 2007
Reference Sewage Works as part of treatment train	N/A
Brief Description	200 mm intake to control the extended detention level, a single catchbasin equipped with an inlet control device (IPEX Type B or equivalent) to control the active storage level, a second single cathbasin to be set at top of grate elevation; all tree outlet structures allowing a maximum discharge rate of 0.282 m3/s and discharging to a double catchbasin manhole equipped with an emergency spillway and an overflow spillway discharging via 825 mm diameter stormsewer.
Receive Emergency Sanitary Overflows	No
Notes	N/A

7321 – SWM Wet Pond (Rice Subdivision)

Location	43.31205, -81.74860
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill
	Subwatershed
Receiver of discharge	Discharges through Simmons/Pergel Drain to Ausable River and Lake Huron
Outlet location	43.31219, -81.75050
Catchment Area	21.67 hectares
Level of Treatment for suspended solids	Level 1 Enhanced treatment for 80% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	A hybrid wet pond/wetland with approximate permanent pool volume of 2,532 m3, total active storage volume of approximately 12,367 m3 and a total storage volume of approximately 14,899 m3.
Design Storm	Quantity: 100 yr storm; Quality: 2-yr storm
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 6121-8K5HF9, Issue Date: September 23, 2011
Reference Sewage Works as part of treatment train	N/A
Brief Description	One (1) 900mm diameter inlet to the forebay and a 4.0m wide overflow spillway into the forebay; a sediment forebay and forebay berm; 3.0 m wide stone dust access road ; one (1) ditch inlet quality control structure consisting of a 140 mm diameter orifice, discharging via 300 mm diameter storm pipe to a quantity control structure; one (1) ditch inlet quantity control structure consisting of a 320 mm diameter orifice, discharging to Simmons/Pergel Drain, via 525 mm diameter storm sewer; one (1) 10 m wide overflow spillway to discharging onto the Simmons/Pergel Drain.
Receive Emergency Sanitary Overflows	No
Notes	N/A

Asset TBD – GOD to Simmons Drain Outlet

Location	43.31234, -81.75065
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill Subwatershed
Receiver of discharge	Discharges through Simmons/Pergel Drain to Ausable River and Lake Huron
Outlet location	43.31225, -81.75057
Catchment Area	2.01 hectares
Level of Treatment for suspended solids	Level 2 Normal treatment for 73% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	Sediment storage capacity of 3,000 litres, an oil storage capacity of 915 litres, a total holding capacity of 4,070 litres,
	and a maximum treatment flow rate of 18 litres per second
Design Storm	N/A
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 8210-AWZPKJ, Issue Date: March 29, 2018 Reference Works as part of treatment train
Reference Sewage Works as part of treatment train	N/A
Brief Description	one (1) oil/grit separator, model Stormceptor STC 750 receives runoff generated from Creekside Place and discharges to Simmons/Pergel Drain.
Receive Emergency Sanitary Overflows	No
Notes	N/A

7297 – SWM Wet Pond (Erin place Subdivision)

Location	43.30538, -81.75617
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill Subwatershed
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Outlet location	43.30599, -81.75488
Catchment Area	4.7 hectares
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Treatment for other Contaminants, as required	N/A
Level of Volume control	The detention wet pond has a permanent pool volume of 735 m3, an active storage volume of 1,600 m3 complete with inlet structure, sediment forebay and outlet structures.
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Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 3025-76YRNC, Issue Date: September 19, 2007
Reference Sewage Works as part of treatment train	N/A
Brief Description	200 mm intake to control the extended detention level, a single catchbasin equipped with an inlet control device (IPEX Type B or equivalent) to control the active storage level, a second single cathbasin to be set at top of grate elevation; all tree outlet structures allowing a maximum discharge rate of 0.282 m3/s and discharging to a double catchbasin manhole equipped with an emergency spillway and an overflow spillway discharging via 825 mm diameter stormsewer.
Receive Emergency Sanitary Overflows	No
Notes	N/A

7321 – SWM Wet Pond (Rice Subdivision)

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Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill
	Subwatershed
Receiver of discharge	Discharges through Simmons/Pergel Drain to Ausable River and Lake Huron
Outlet location	43.31219, -81.75050
Catchment Area	21.67 hectares
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Reference Sewage Works as part of treatment train	N/A
Brief Description	One (1) 900mm diameter inlet to the forebay and a 4.0m wide overflow spillway into the forebay; a sediment forebay and forebay berm; 3.0 m wide stone dust access road ; one (1) ditch inlet quality control structure consisting of a 140 mm diameter orifice, discharging via 300 mm diameter storm pipe to a quantity control structure; one (1) ditch inlet quantity control structure consisting of a 320 mm diameter orifice, discharging to Simmons/Pergel Drain, via 525 mm diameter storm sewer; one (1) 10 m wide overflow spillway to discharging onto the Simmons/Pergel Drain.
Receive Emergency Sanitary Overflows	No
Notes	N/A

Asset TBD – GOD to Simmons Drain Outlet

Location	43.31234, -81.75065
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill Subwatershed
Receiver of discharge	Discharges through Simmons/Pergel Drain to Ausable River and Lake Huron
Outlet location	43.31225, -81.75057
Catchment Area	2.01 hectares
Level of Treatment for suspended solids	Level 2 Normal treatment for 73% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	Sediment storage capacity of 3,000 litres, an oil storage capacity of 915 litres, a total holding capacity of 4,070 litres,
	and a maximum treatment flow rate of 18 litres per second
Design Storm	N/A
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 8210-AWZPKJ, Issue Date: March 29, 2018 Reference Works as part of treatment train
Reference Sewage Works as part of treatment train	N/A
Brief Description	one (1) oil/grit separator, model Stormceptor STC 750 receives runoff generated from Creekside Place and discharges to Simmons/Pergel Drain.
Receive Emergency Sanitary Overflows	No
Notes	N/A

Appendix B

Technical Memorandum #2 – Model Results

Technical Memorandum #2
Baseline Conditions

Model Development

Grand Bend Stormwater Management Master Plan

Prepared for Municipality of Lambton Shores
by IBI Group
8133 Warden Avenue, Markham, ON L6G 1B3 | 905-763-2322 | www.ibigroup.com
September 18, 2023

Document Control Page

CLIENT:	Municipality of Lambton Shores
PROJECT NAME:	Grand Bend Stormwater Management Masterplan
REPORT TITLE:	Baseline Model Development
IBI REFERENCE:	141850
VERSION:	V1
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ORIGINATOR:	Roy Johnson, P.Eng., Project Manager
REVIEWER:	Will Heywood, P.Eng.,
AUTHORIZATION:	Philip Gray, P.Eng., Associate Director – Infrastructure Planning
CIRCULATION LIST:	
HISTORY:	Draft Report – July 19, 2023 Final Report – September 18, 2023

Abbreviation Table

ABBREVIATION	FULL NAME
AMSL	Above Mean Sea Level
SWMMP	Stormwater Management Master Plan
SWMF	Stormwater Management Facilities
DEM	Digital Elevation Model
GIS	Geographic Information System
LID	Low Impact Development
LOS	Level-Of-Service
OGS	Ontario Geological Survey
MH	Maintenance Hole
CB	Catchbasin
DCB	Double Catch Basin
RYCB	Rear-Yard Catch Basin
HGL	Hydraulic Grade Line
ROW	Right-Of-Way
ECA	Environmental Compliance Approval
ICLR	Institute For Catastrophic Loss Reduction
IDF	Intensity-Duration-Frequency
ECCC	Environment and Climate Change Canada
ICD	Inlet Control Devices

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1 Introduction

Arcadis IBI Group (IBI) was retained by the Municipality of Lambton Shores to develop a Stormwater Management Masterplan (SWMMP) for the Village of Grand Bend (Village) (Study Area).

The assessment of problem areas and development of solutions is facilitated by a detailed PCSWMM dual-drainage model of the existing stormwater system, which has been built by IBI to represent the Study Area. The existing Geographic Information System (GIS) data and background information was initially reviewed and documented in Technical Memorandum #1 (TM#1). Technical Memorandum #2 (TM#2) summarizes the baseline model development process, parameterization of the baseline dual-drainage model and estimate existing capacities of minor and major drainage system infrastructure under different design storms and identify problematic areas.

1.1 Study Area Overview

Figure 1-1 Location Map shows the Village of Grand Bend within the Municipality of Lambton Shores. Grand Bend (Study Area) covers approximately 882 hectares and is generally defined by Walker Street in the north, Parkhill Creek in the east, Klondyke Road in the south, and Lake Huron in the west.

Grand Bend has a mix of land use including residential, agricultural, commercial, roadways, watercourses, open space, and lakeshore. Parkhill Creek is the main watercourse running through Grand Bend and ultimately discharges into Lake Huron to the west. The Old Ausable Channel is a disconnected historic channel transitioning to a pond-like ecosystem. The elevation of the watershed varies from 189 m amsl (above mean sea level) in the upstream areas to 176.5 m amsl at the outlet to Lake Huron. Impervious cover is approximately 55% based on the land use, and soil in the Study Area has been characterized as either glaciolacustrine sand and silt or silty clay till depending on the specific locations as per the Ontario Geological Survey-Map 2400 (1974) in Appendix A.

1.2 Surface Water Intake Protection Zone

There are two (2) drinking water intake protection zones (IPZ) for the Lake Huron Water Treatment Plant, which provides source water for hundreds of thousands of people in the region.

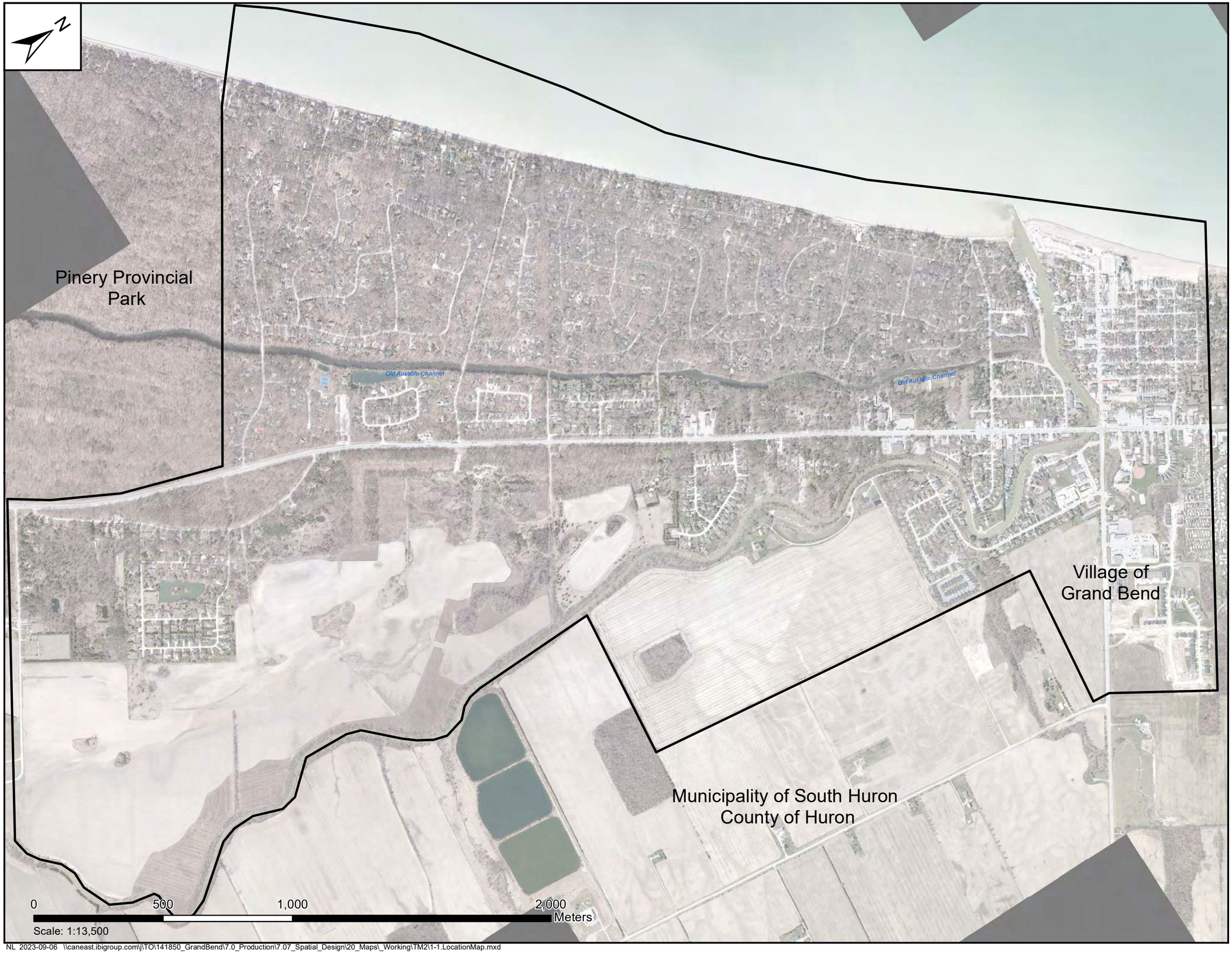
An intake protection zone (IPZ) is an area of land and water around a municipal intake pipe that contributes source water to a drinking water system. Part of the Intake Protection Zone-2 or 2-hour time of travel to the intake for the Lake Huron Primary Water Supply System falls in the Study Area. The plant and intake at Port Blake supplies 375,000 residents in the surrounding area and London. IPZ-2 will be taken into consideration in developing the SWMMP.

1.3 Objectives

The Village currently does not have a SWMMP; therefore, this effort will establish a much-needed road map for the Municipality to advance the development of a comprehensive stormwater management strategy to address current and future needs, provide acceptable levels of service, and meet regulatory requirements. The baseline dual-drainage model is used to evaluate the existing flow capacities of the major and minor drainage systems under current conditions as a part of the SWMMP. The Village has identified various areas of localized flooding; therefore, developing a strategy to mitigate that flooding will be a key focus of the SWMMP.

The objectives for developing the baseline dual-drainage model include:

- Estimate existing capacities of minor and major drainage system infrastructure under relatively small storm events and recent major storm events (5-year and 100-year storm event).
- Estimation of hydraulic grade lines in storm sewers.
- Identify problematic areas due to capacity of drainage systems.
- Inventory and address stormwater infrastructure issues as part of the Village's overall asset management program.
- Aid in the development of a 'level-of-service' (LOS) for stormwater management with the Village.





Legend

Village of Grand Bend Municipal Boundaries

Figure 1-1
Grand Bend Location Map

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	September 2023

NL 2023-09-06 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\TM2\1-1.LocationMap.mxd

2 Model Development

2.1 Model Overview

The Grand Bend dual-drainage model includes sub-catchments, major and minor system components, stormwater outfalls and storm management facilities. Both the existing minor and major systems discharge to the Old Ausable Channel. The NAD83 UTM Zone 17N coordinate system was used to project the model.

Drainage systems within the Village could broadly be divided into areas serviced by conventional storm sewers (primarily the downtown/urban areas) and those serviced by ditches and/or open bottom catchbasins (most of the Village, being essentially rural):

- Surface runoff from land parcels generally flows to road gutters and enters the minor drainage system through the catchbasins/curb inlets. When the runoff flow rate exceeds the minor drainage system conveyance or inlet capacity of the catchbasin/inlet capacity, stormwater runoff is routed to the major drainage system.
- For ditched areas, runoff is collected in ditches and discharged to local outlet, or local drainage is directed to open bottom catchbasins which, when exceeded, causing ponding and eventually spills to the ditches.

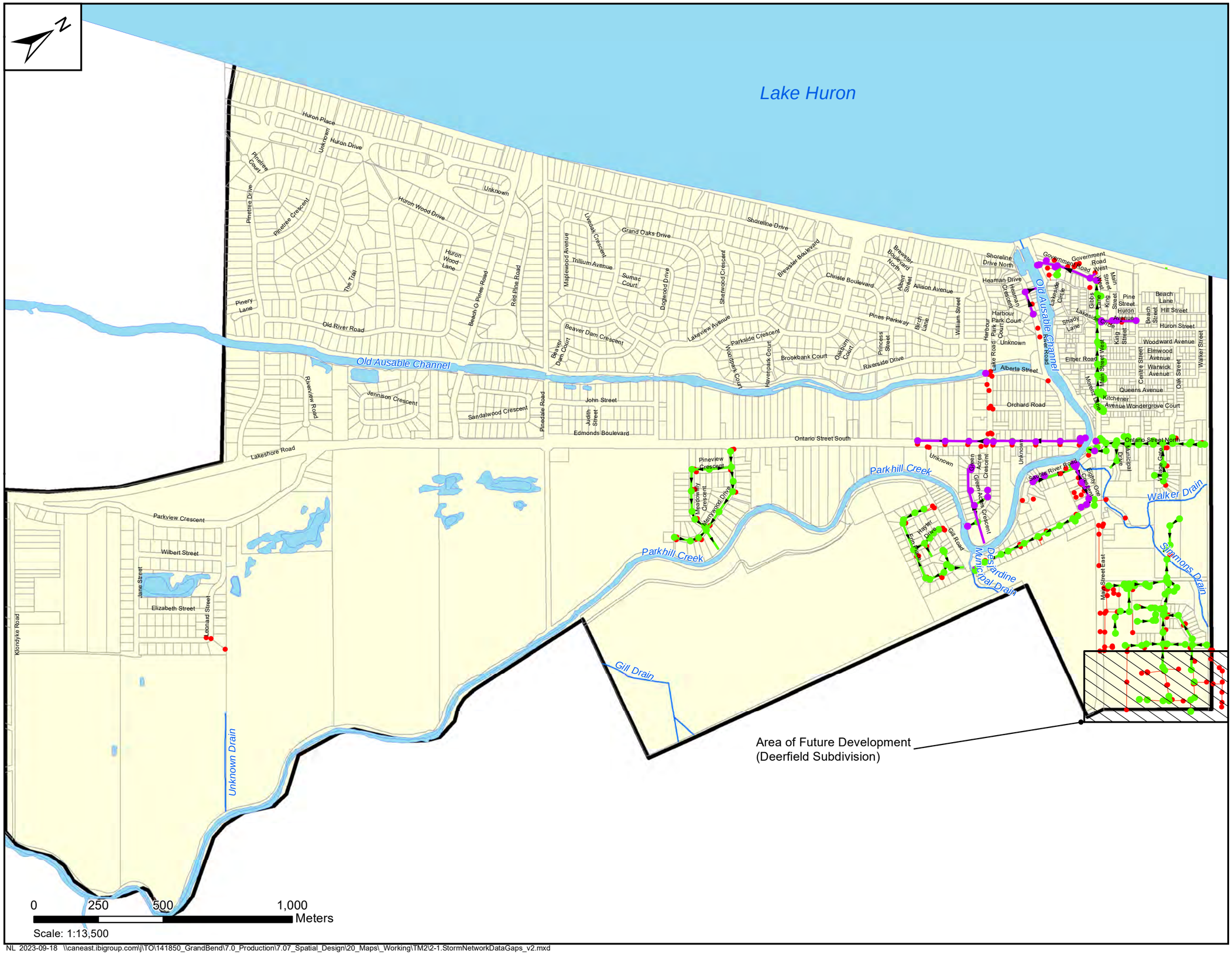
The following section outlines the process of developing the PCSWMM hydrologic/hydraulic model [the Model] for the Village, including the setup of the model, selection of pre-calibration parameters and assumptions made.

The model setup methodology followed these major steps:

- Review existing GIS data and delineate the drainage areas;
- Import physical network (pipes and MHs) for modeling areas to PCSWMM;
- Generate major system to represent the road network and overland flow paths;
- Delineate catchments based on the drainage methodology;
- Assign inlets and rating curves (for catchbasins and SWM Ponds) to link major and minor systems;
- Account for private sewer networks and external areas; and,
- Check model function through preliminary test simulations.

2.2 Assumptions

Technical Memorandum #1 presented a summary of the background information review completed and identified significant data gaps. GIS data was provided by the Municipality and includes physical information about the Study Area. Overall, the received data was of good quality although a field survey was required to supplement the data gaps. The field survey was completed for all critical information; where there were any missing invert data reasonable engineering assumptions were made. The received GIS data & as-built drawings, field survey data has been identified in the Figure 2-1.





Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain

Storm Network

- GIS and Drawing Data received from client (MH, CB, Outfall)
- GIS and Drawing Data received from client (Stormwater Pipes)
- Field Survey Data (MH, CB, Outfall)
- Field Survey Data (Storm Pipes)
- Data Remains Missing (MH, CB, Outfall)
- Data Remains Missing (Storm Pipes)

Remaining Missing Data Note:
Elevations were assigned based on the assumptions (refer to section 2.2 in the TM#2 Memo). Some irrelevant MH/CB and pipes without adequate asset information was not included in the model.

Figure 2-1
Storm Network Data Gaps

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	September 2023

NL 2023-09-18 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\TM2\2-1.StormNetworkDataGaps_v2.mxd

The following assumptions in Table 2.1 were used in the development of the Model.

Table 2.1 Modeling Assumptions

Item	Description
For Minor System	
1	Manhole invert elevations not included in the GIS data or field measurement were assumed to be equal to the lowest connected pipe invert elevation at each junction.
2	Missing or clearly unrealistic pipe invert elevations were linearly interpolated from upstream and downstream pipe elevations where data in the GIS layers was unavailable.
3	Estimates of manhole rim elevations and CB grate elevations were extracted from the Digital Elevation Model (DEM) when data was unavailable in the as-built drawings and GIS data from the Municipality.
4	Where two CBs were located across from each other on a street, a single outlet link was assigned to represent the pair.
For Major System	
1	Major junctions' inverts were set based on MH rim elevations.
2	Where there was no major system node close to a CB location, the major system conduit was split and a junction was inserted. The new junction invert elevation was interpolated between the US and DS inverts of the major system conduit that was split.
3	Major system conduit that represents local road was assigned a standard irregular transect when cross-section details were unavailable.
4	All street cross sections were assumed to have a cross-slope of 0.005 m/m and a maximum curb height of 0.30m.
5	Major junctions' depths were set as 2m to have sufficient depth.

2.3 Sub-Catchments Modeling

Sub-catchments for the modeling areas were delineated using the ArcGIS tool, and then manually refined before being added to the model.

2.3.1 Sub-catchment Discretization

The approximately 882 ha Study Area was discretized into 278 sub-catchments, ranging in size from 0.8 to 37.5 hectares. Based on the land use, the Study Area can be divided into rural area and urban area.

The sub-catchment delineation was based on topography using ArcGIS and then adjusted to respect the minor drainage system and field investigations made by IBI's field crew. Arcadis-IBI Group obtained 0.5m LiDAR data from the Ontario GeoHub web map services.

Sub-catchments were always drained into the major system node when one was available. Sub-catchment outlets were determined considering the major/minor system drainage.

Sub-catchment discretization and outlet locations are shown in Figure 2-2 Drainage area and Model Overview Map.

2.3.2 Sub-catchment Parameterization

The following sections describe how the initial (i.e., before calibration) values for the sub-catchment parameters were selected. A summary table of the sub-catchment parameters has been provided in **Appendix B**.

Sub-catchment Area

Sub-catchment areas were calculated in PCSWMM using the sub-catchment GIS coordinates.

Width / Flow length

Sub-catchment width is defined as sub-catchment area divided by the average maximum overland flow path length. Representative flow lengths were assigned based on the sub-catchment size. The flow length was estimated to be 30m for the small urban sub-catchments based on the average sheet flow length in a typical urban area. Rural sub-catchments that had an area greater than 5ha but less than 10ha were given a flow length of 100m and sub-catchments greater than 10ha were assigned a flow length of 150m.

Slope

Overland slope was assumed to be 0.5% for all urban sub-catchments as it is representative of typical slopes in a developed watershed.

Roughness

A Manning's roughness value of 0.011 (representative of "smooth asphalt") was assigned to impervious areas and a value of 0.240 (representative of "dense grasses") was assigned to the pervious areas as recommended in the SWMM5 User's Guidelines.

Depression Storage

Depression storage values of 2mm and 5mm were assigned to impervious and pervious areas respectively as recommended in the SWMM5 User's Guidelines.

Percent Imperviousness

The percent imperviousness of each layer was estimated using an area-weighted average based on a parcel and buildings layer provided. Impervious areas including buildings, parking lots and roads were assumed to have an impervious value of 100%. An impervious value of 55% was used in the urban residential areas, and in areas defined as being zoned as open space a value of 0-5% was used. Figure 1 presents the estimated imperviousness of each sub-catchment.

Infiltration

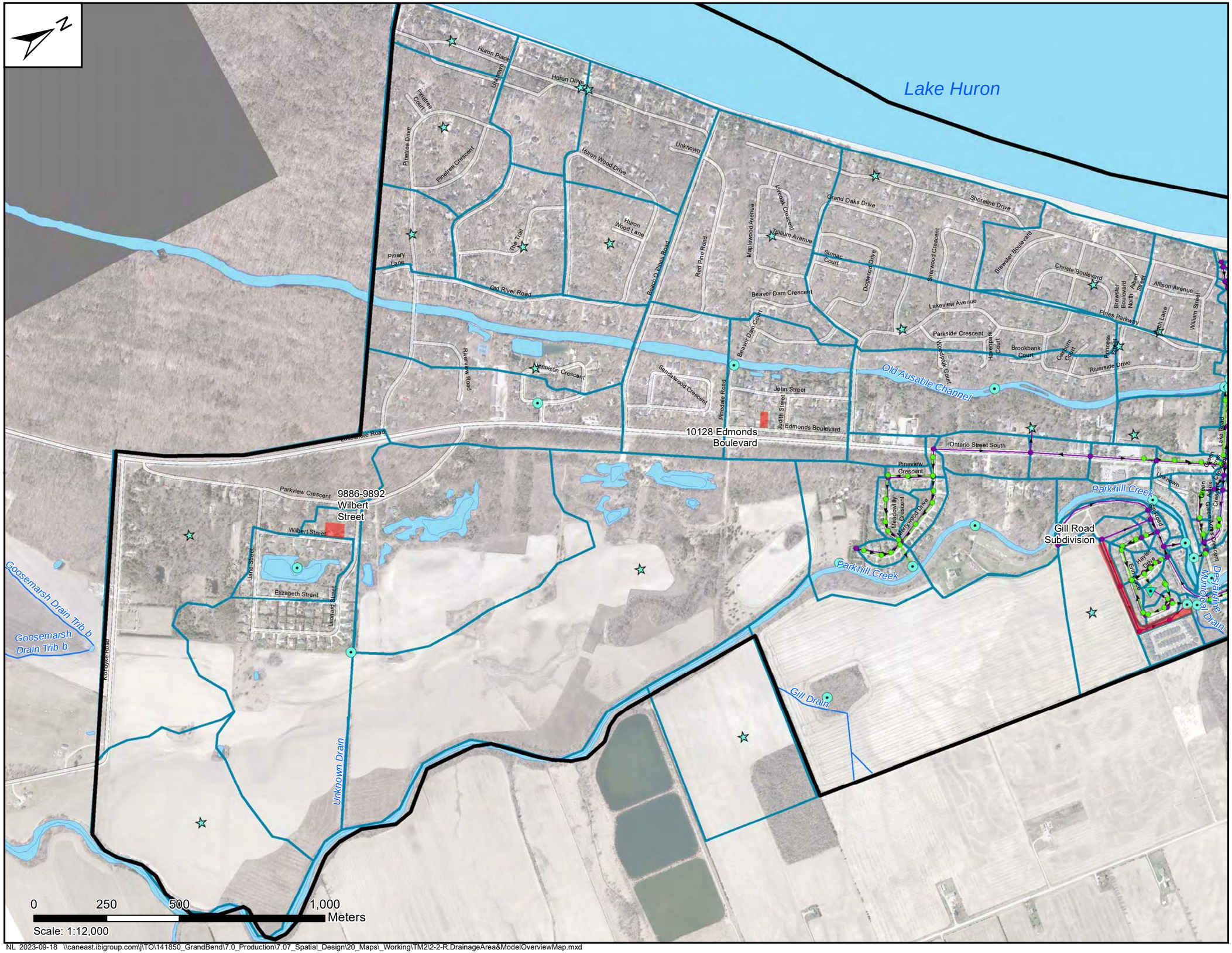
Hydraulic properties and percolation rates of soils throughout the Study Area are required for modelling sub-catchments and Low Impact Development (LID).

The Municipality provided available geotechnical reports, specifically within the northern downtown Village area, that include soil stratigraphy and groundwater level information. A high-level review of the reports determined that silty clay till with trace sand and gravel is the prevalent soil layer within the Study Area.

However, as per the Ontario Geological Survey-Map, soil stratigraphy varies significantly throughout Grand Bend. The Modified Horton method was chosen to simulate infiltration in the model. In the soils layer provided, soil classes were assigned initial Modified Horton model parameter. Soil classes rendered on soil type for the Grand Bend area are shown in **Table 2.1**. Further hydrogeotechnical investigations would likely be required at specific locations of proposed LIDs.

Table 2.2 Modified Horton Method Soil Parameters for Grand Bend Study Area

Soil Texture Class	LOCATION	Hydrologic Soil Group	Max. infiltration Rate (mm/hr)	Min. infiltration Rate (mm/hr)	Decay Constant	Drying Time
Sand, Gravel	Most Of Rural Area	A	114.3	11.43	4.14	7
Silty Clay	Urban Area	C	25.4	3.81	4.14	7





Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic Area
- Waterbodies
- Municipal Drain
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- SWM Pond
- Subcatchment Areas
- Link from Minor to Major System at CB Locations

Minor System Hydraulic Components:

- Minor Junction (MH/CBs)
- Minor Conduit (Stormwater Pipes)

Major System Hydraulic Components:

- Minor Junction of Major System Flow Paths
- Major Conduit (Overland Flow Paths)

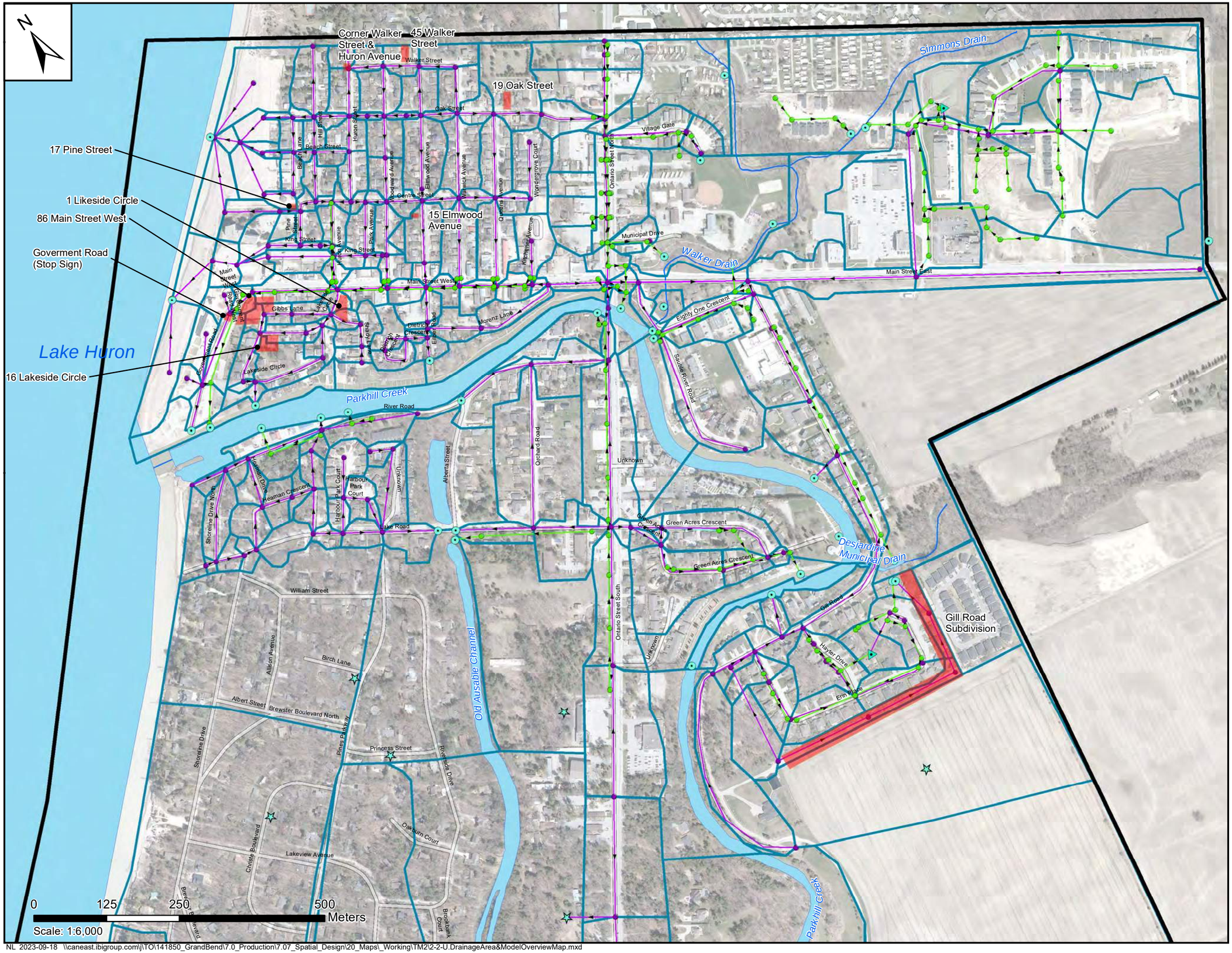
Figure 2-2-Rural Drainage Area and Model Overview Map

Grand Bend Stormwater Management Master Plan

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Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic Area
- Waterbodies
- Municipal Drain
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Link from Minor to Major System at CB Locations
- Subcatchment

Minor System Hydraulic Components:

- Minor Junction (MH/CBs)
- Minor Conduit (Stormwater Pipes)

Major System Hydraulic Components:

- Minor Junction of Major System Flow Paths
- Major Conduit (Overland Flow Paths)

Figure 2-2-Urban Drainage Area and Baseline Model Overview Map

Grand Bend Stormwater Management Master Plan

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2.4 Minor System Model Build

Urban stormwater drainage systems can be described in terms of two (2) main components: the minor system and the major system:

- The minor system consists primarily of subsurface storm sewer pipes and is typically designed to accommodate the runoff from more frequent events (5-year return period storms as per the Municipality's Municipal Development and Servicing Standards).
- The major system includes streets, and various natural and artificial channels, and is typically designed to accommodate flows more than what can be carried in the minor system during very large events (100-year return period storms as per the Municipality's Municipal Development and Servicing Standards).

These two (2) systems are linked at curb inlets which allow runoff into (and in some cases out of) the storm sewer system.

Figure 2-2 shows an overview of the dual-drainage model including all sub-catchments, hydraulic components: conduits (major, minor, creek and trapezoidal channels), junctions, and outfalls and outlets included in the model. An inventory of the PCSWMM entities used to model the system is presented in **Table 2.3**.

Table 2.3 Inventory of PCSWMM entities in Village Dual-Drainage Model

PCSWMM Entity	Number	Description
Sub-catchments	278	Drainage areas
Minor junctions	173	Manholes/catchbasins
Major junctions	172	Junctions of major system flow paths
Minor conduits	176	Stormwater pipes and ditches
Major conduits	222	Overland flow paths
Outlets	52	Link from minor to major system at catchbasin locations
Rating curves	4	Flow restriction of catchbasin grates; Pond outlet control
Shape curves	2	SWM Pond geometry
Transects	5	Roadway cross section geometry
Outfalls	62	Discharges downstream

2.4.1 Storm Sewer Network

Coordinates, diameters, materials, slopes, and lengths for minor system pipes were imported from GIS data provided by the Municipality. Minor system junctions were imported from a GIS points layer containing manhole locations. The minor system in the Study Area was checked by reviewing pipe profiles in PCSWMM and flagging any problem areas (steps, reverse-sloped pipes, excessively deep sumps, etc.). Issues were corrected based on engineering judgement or from drawings where available and required.

Maintenance Holes (MHs)

- Locations, inverts, and rim elevations were sourced from Municipality of Lambton Shores's GIS and corrected based on the as-built drawings where required;

- Manhole invert elevations not included in the GIS data or field measurement were assumed to be equal to the lowest connected pipe invert elevation at each junction; and,
- Estimates of manhole rim elevations were extracted from the DEM.

Sewer Pipes

- Geometry sourced from Municipality's GIS, corrected based on as-built drawings and assumptions (lengths, inverts, diameters);
- Missing or clearly unrealistic pipe invert elevations were linearly interpolated from upstream and downstream pipe elevations where data in the GIS layers was unavailable and supplemented with field measurements;
- Minor system conduits representing pipes and grassed ditches were assigned Manning's roughness coefficients of 0.013 and 0.24, respectively, as per SWMM5 User's Guidelines;
- A Manning's roughness of 0.011 was assigned to all major system conduits, representing asphalt cover as per SWMM5 User's Guidelines; and,
- Private sewer networks were included where GIS data or As-Built drawings was available and generally complete. Private system network pipes without adequate asset information were not included in the model; however, the areas are represented in the model.

Outfalls and Minor System Boundary Conditions

The model outfalls represent conditions in the Creek downstream of the study area. Outfall boundary conditions are set on a case-by-case basis, depending on receiving system conditions. For urban area, the outfall boundary condition was assigned with a "FIXED" tailwater elevation taken from the HEC-RAS model and As-Built Drawings where available and provided. For rural area with no detailed downstream conditions, the outfall nodes were assumed at the low points and set as "FREE" outfalls.

The outfall locations, invert elevations and downstream water levels have been summarized in the table in **Appendix B**.

2.5 Major System Model Build

2.5.1 Overland Flow Network

The major drainage system consists of the overland flow routes within the Study Area to convey additional surface runoff beyond the capacity of the minor drainage system during large storm events.

A Level of Service general practice is to design the major drainage system to convey flow from a rare (e.g. 100-year) design storm without local flooding or affecting traffic flow significantly. The main components of the Study Area major drainage system are roadway curb and gutter systems.

The following outlines the process followed to define the overland flow network:

- Developed using the minor system as a starting point;
- Major system conduits representing street flow were generated parallel to all minor system conduits using PCSWMM's dual-drainage creator tool. Along major streets which had no minor system conduits, major system conduits were added manually;
- Major junctions' inverts were set based on MH rim elevations. Major junctions were added to the major system representing rights-of-way (ROWs) to better represent minor

system inlet locations (catchbasins and MH lids). Additional nodes were only added where necessary such as CB locations, corners, significant slope changes, etc.;

- The network was edited for system continuity to account for rear-yard channels, flow from rear-yard areas to the street, and on streets;
- Rear-yard channels, and flow paths through large parking lots were added using DEM flow paths generated during the sub-catchment delineation process;
- All major system conduits were reviewed in profile and low points were flagged; and;,
- Major system transects were assigned based on road type (Major Roads, Local Roads). Transects supplied with the cross-section details available in the as-built drawings.

2.5.2 Stormwater Management Facilities

As per the TM#1, The Municipality provided two (2) sources of information for stormwater management (SWM) facilities within the Study Area; as-constructed drawings and Environmental Compliance Approvals (ECAs).

Five (5) SWM facilities were identified within the boundaries of the Study Area. Two (2) of them were SWM ponds and were modelled as storage units in the PCSWMM model. **Table 2.4** provides a summary of the SWM Ponds including location, type, and outlets.

Table 2.4 SWM Pond Details

Storage Unit ID	LOCATION	SWM FACILITY	CATCHMENT AREA (HA)	OUTLET	SOURCES
Gill_RD_Pond	Gill Road Subdivision	Wet Pond	4.7	Desjardine Drain	SWM Report, As-constructed Drawings & ECA
Rice_Pond	Rice Subdivision	Hybrid Pond	21.7	Walker Drain	SWM Report, As-constructed Drawings & ECA

2.5.3 Storm Inlets and Rating Curves

At each manhole location a SWMM5 outlet link was used to control flow from the major system to the minor system. Connecting the major system to the minor system is accomplished through storm inlets with rating curves. Flow through each outlet was defined by the rating curve considering a 600mm x 600mm herringbone grate (DD-713B - City of Toronto) multiplied by the number of catchbasins within the sub-catchment. The herringbone grates were assumed to be positioned on a longitudinal slope of 0.01m/m. The following outlines the modelling approach.

- Catchbasins are represented in the model using “Outlet” links connected from major system nodes to minor system nodes for each catchbasin (CB) or pair of CBs;
- Where there was no major system node close to a CB location, the major system conduit was split (using the PCSWMM “Split” tool) and a junction was inserted. The new junction invert elevation was interpolated between the US and DS inverts of the major system conduit that was split. A new outlet link was then added at this location;
- Generally, where two (2) CBs were located across from each other on a street, a single outlet link was assigned to represent the pair;

- Double catch basins (DCBs) were considered as a single unit when creating Outlet links, but were assigned a rating curve representing the capture from two (2) CBs;
- All rating curves were assigned as TABULAR / HEAD type in PCSWMM, to allow for reverse flow (backwater) conditions;
- Capture from MH lids is included as part of the rating curve of outlet links where the MH and CBs are close together. Where this was not the case, a separate Outlet link was added to represent the MH lid capture;
- Backflow from MH lids are represented using Outlet links connected from minor system nodes to major system nodes. The inlet elevation of links was set to the rim elevation of the MH; and
- Outlet links representing rear-yard catch basins (RYCBs) were added at known RYCB locations within new developments. As per Municipality methodology, RYCBs were also assumed at locations where the flow accumulation raster indicated low points located in rear-yard areas. RYCBs were modelled as single CB at a low point.

3 Level of Service

A Level of Service (LoS) approach is used for assessment of the existing conditions and developing solutions. The level of service approach compares the water level to an expected elevation where flooding may be expected. For the minor system, it is when the HGL in the sewers reach an expected basement slab elevation, while for the major system, it is when the above ground water level reaches the base of the building.

From the review of regulatory information and background information, we will work with the Municipality to establish a clear statement on the level of service (LOS) objectives, stormwater control objectives, and performance metrics. It is necessary to establish performance metrics/objectives for existing systems that may not have been designed to the current standard to identify constraints and deficiencies. With advanced modelling, the assessment of existing systems takes into consideration the truly dynamic nature of wet weather events and changing conditions. As such, the design standards may not fully identify actual constraints and deficiencies in the existing system, and the Municipality may consider other complementary hydraulic performance criteria to assess existing systems (major/minor), such as:

- No surcharging of the storm system under the 5-year event;
- Surcharge is allowed during the 100-year event if the maximum water surface elevation is greater than 1.8 m below the ground elevation;
- Under the 100-year storm, surface flooding should not extend beyond the municipal right-of-way; and
- The depth of surface flooding should not exceed 300 mm or 150 mm where there is a reverse driveway.

The above performance metrics examples are focused on hydraulic performance only, and other metrics related to flow velocity, storage pond performance, and water quality may need to be considered.

4 PCSWMM Model Evaluation

4.1 Baseline Model Performance

When assessing the minor system (underground sewer) performance, flooding may occur where the water level within the sewers reaches the elevation of the top of basement slabs for connected properties. The pipe surcharging occurs when the peak flow is over the sewer capacity or the water depth is over the pipe size. The freeboard was calculated as the difference between the assumed basement floor slab elevation and the HGL at the storm lateral connection. The top of the basement floor slab was calculated for each building by subtracting 1.8 m from the average grade along the front of the house (average elevation based on DEM).

When assessing the major system (overland) performance, flooding may occur when the water above ground is expected to reach the base of a building.

The baseline dual-drainage model was run with two (2) rainfall events to assess the performance of the storm drainage system. The performance runs include:

- 2- and 100-Year 24-hour Chicago Design Storm Event; and,
- 100-Year 24-hour Chicago Design Storm Event.

System performance mapping has been completed for the above storm events and shown in the Figures following.

4.1.1 5-Year Design Storm Assessment

Results of the baseline model performance indicates that the minor system is over capacity in the 5-year storm event. Figure 4-1 and Figure 4-2 presents the minor and major system performance in a 5-year storm event for the urban and rural area.

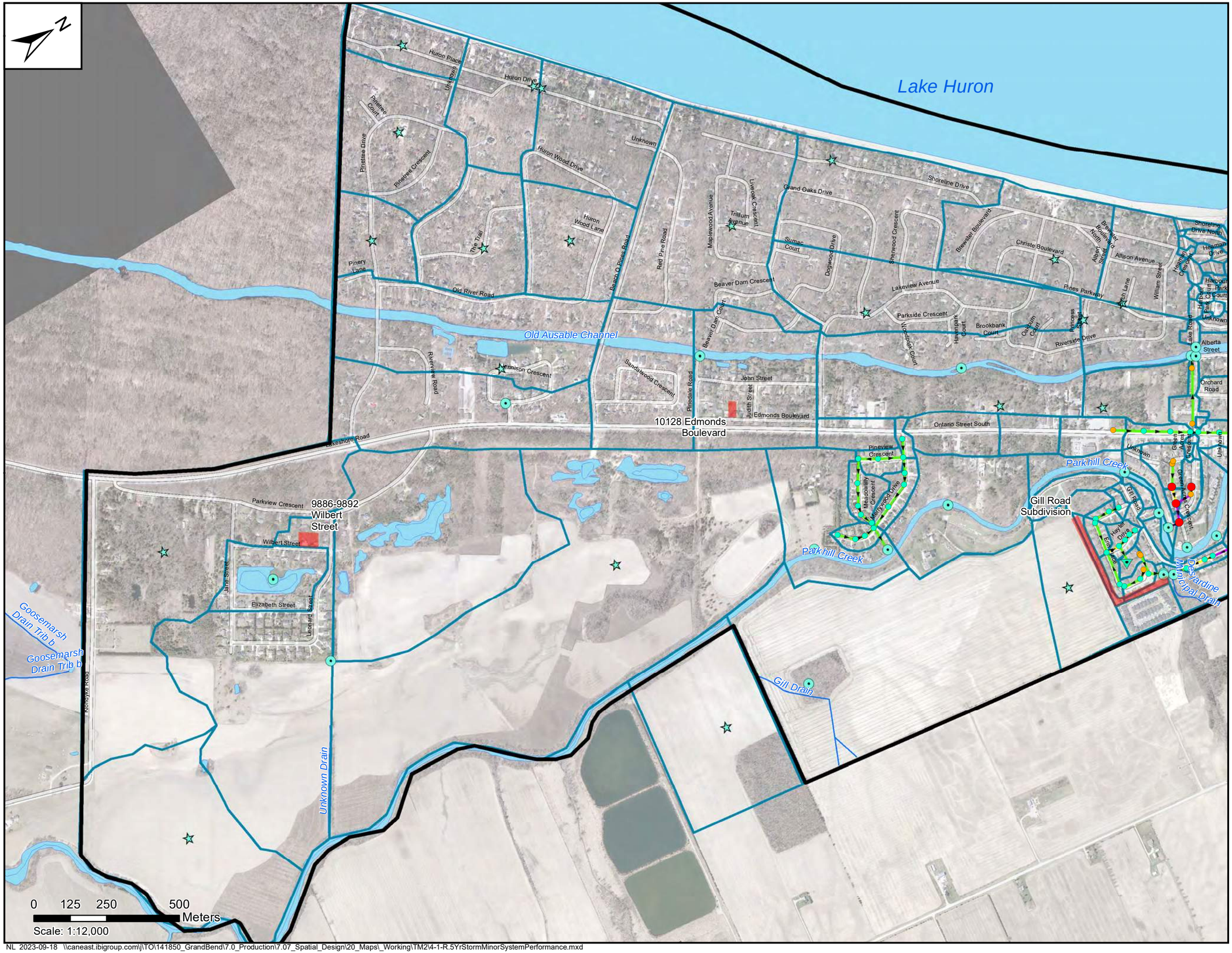
Some of the key observations include:

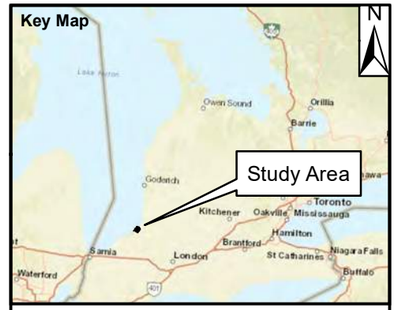
- Less than half (35%) of pipes exhibit surcharging conditions in the 5-year storm event, of which 12% are over capacity and 23% are backwater condition. Some identified problematic areas are surcharging to the surface in 5-year events.
- The risk of basement flooding is high for properties with direct connections to the storm system. In total, 38% of manholes have a maximum hydraulic grade line (HGL) within 1.8m of the ground surface in the 5-year storm event and 9% of the total minor structures have the flow spill to the surface.
- Most of the major system does not have significant ponding in 5-year storm events. However, significant ponding (greater than 0.3m) and surface flooding is expected in specific areas including on:
    - Gibbs Lane at Lakeside Circle;
    - Pine Street at Centre Street, Government Drive at Main Street West; and,
    - Corner of Walker Street and Huron Street, and, on Oak St and Walker Street.
    - Slight ponding is expected in area including Sauble River Road at 81st Crescent, Green Acres Crescent intersection, Morenz Lane between Eilber Road and Main Street West.

A summary of the results for the manholes, conduits capacity and major system ponding during the 5-year storm event are shown in **Table 4.1**.

Table 4.1 5-Year Storm Event System Performance Summary Table

Hydraulic Components	Number	Conditions
Minor Nodes (Flow to Surface)	**16**	Flooded
Minor Nodes (Freeboard < 1.8m)	**65**	High Risk
Minor Nodes (Freeboard > 1.8m)	**92**	Low Risk
Surcharged Pipe (Backwater)	**41**	Surcharging
Surcharged Pipe (Over Capacity)	**21**	Surcharging
Free Flow Pipe	**114**	Free
Major Nodes (Ponding > 300mm)	**18**	Significant Flooding
Major Nodes (Ponding between 150 and 300mm)	**21**	Slight Flooding
Major Nodes (Ponding < 150mm)	**133**	No Flooding





Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic Area
- Waterbodies
- Municipal Drain
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Subcatchment Areas

HGL Level During 5-Year Storm Event

- Flow to Surface
- Freeboard < 1.8m
- Freeboard < 1.8m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)

Figure 4-1-Rural 5-Year Storm Event Minor System Performance

Grand Bend Stormwater Management Master Plan

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Corner Walker Street & Huron Avenue

45 Walker Street

19 Oak Street

17 Pine Street

1 Likeside Circle

86 Main Street West

Goverment Road (Stop Sign)

16 Lakeside Circle

15 Elmwood Avenue

Lake Huron

Simmons Drain

Walker Drain

Parkhill Creek

Desjardine Municipal Drain

Old Ausable Channel

Gill Road Subdivision

Unknown

Key Map

Study Area

Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic Area
- Waterbodies
- Municipal Drain
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Subcatchment Areas

HGL Level During 5-Year Storm Event

- Flow to Surface
- Freeboard < 1.8m
- Freeboard < 1.8m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)

0 125 250 500 Meters

Scale: 1:6,000

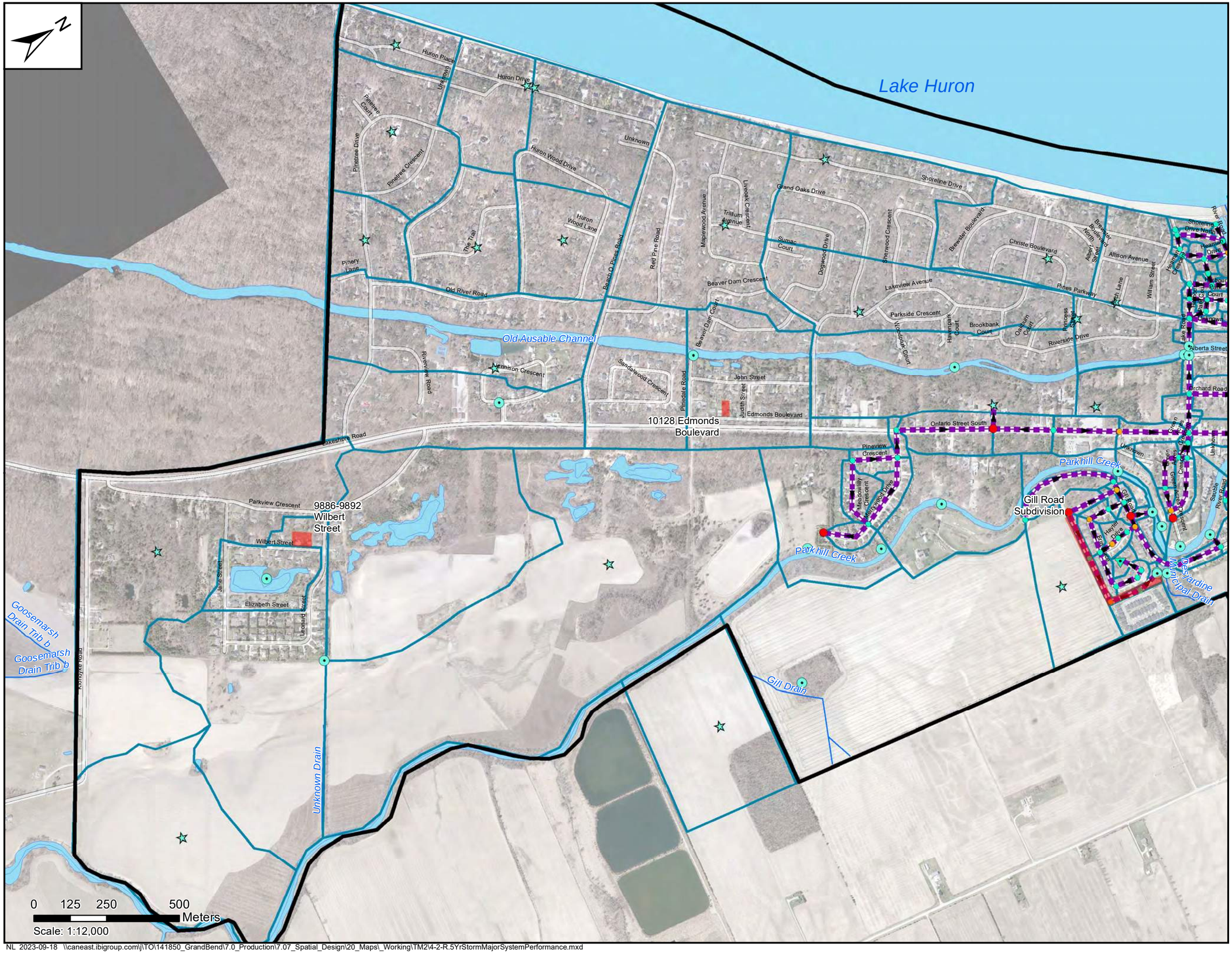
Figure 4-1-Urban
5-Year Storm Event
Minor System Performance

Grand Bend Stormwater Management Master Plan

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Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic Area
- Waterbodies
- Municipal Drain
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Subcatchment Areas

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding <150mm
- Ponding between 150mm and 300mm
- Ponding > 300mm
- Major Conduit (Overland Flow Path)

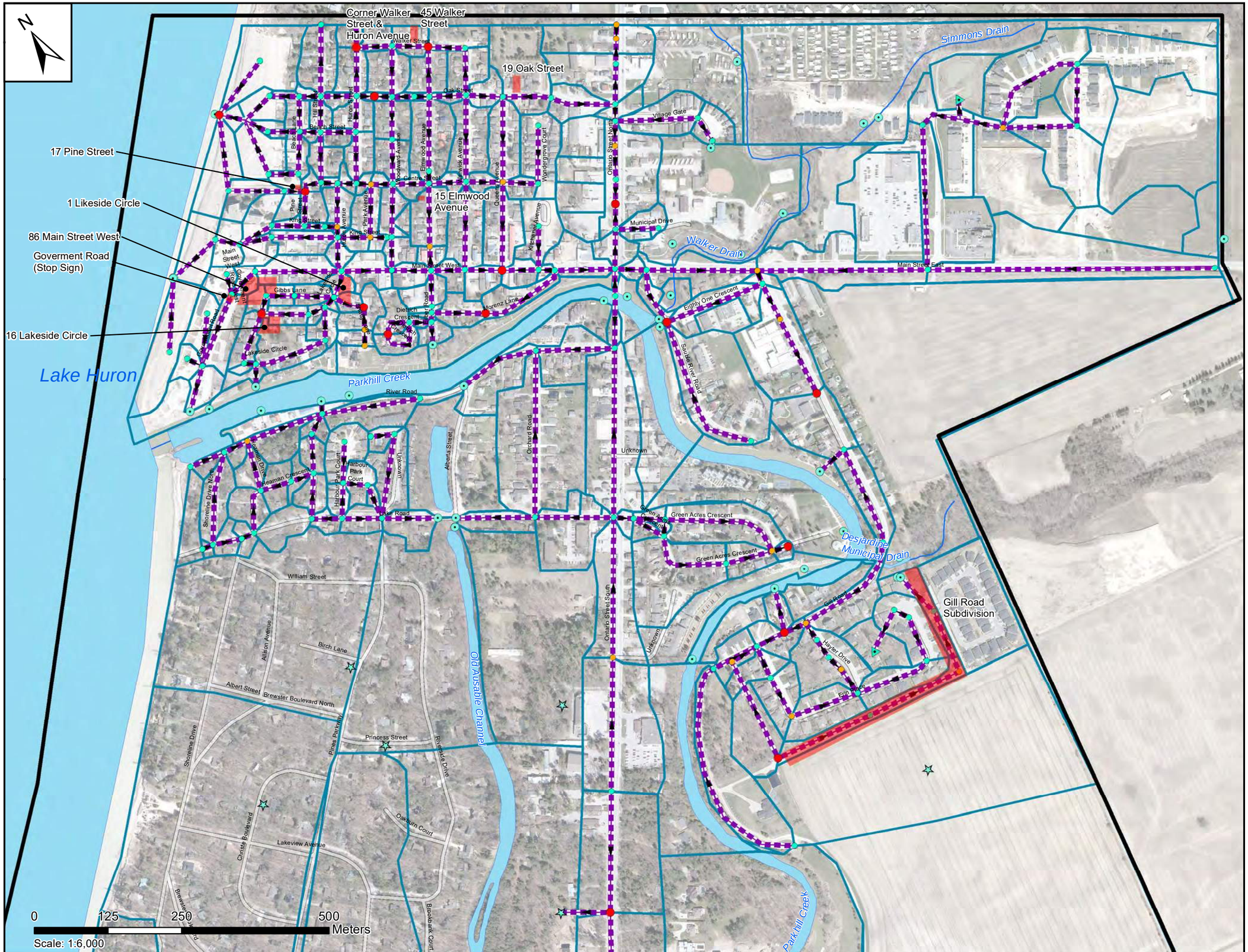
Figure 4-2-Rural 5-Year Storm Event Major System Performance

Grand Bend Stormwater Management Master Plan

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Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic Area
- Waterbodies
- Municipal Drain
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Subcatchment

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding <150mm
- Ponding between 150mm and 300mm
- Ponding > 300mm
- Major Conduit (Overland Flow Path)

Figure 4-2-Urban
5-Year Storm Event
Major System Performance

Grand Bend Stormwater Management Master Plan

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4.1.2 100-Year Design Storm Assessment

During 100-year storm event, the results of the modelled performance runs demonstrate that:

- In more extreme storms, surcharging conditions continue to increase with the majority (59%) of pipes surcharging in the 100-year storm event in the urban area of the Study Area.
- Most of the major system (85%) does not have significant ponding in large storm events. Significant ponding (greater than 300mm) occurred in both 5-year and 100-year events on Ontario Street North, Gill Road, Gibbs Lane at Lakeside Circle; Pine Street at Centre Street, Government Drive at Main Street West; Morenz Lane between Eilber Road and Main Street West, Corner of Walker Street and Huron Street, and, on Oak Street and Walker Street.
- More extreme storms due to climate change will exacerbate flooding conditions. This demonstrates that there is potential to limit flow to the minor system and convey additional overland flow using ICDs and improvements to the drainage system.

Figure 4-3 and **Figure 4-4** presents the minor and major system performance in a 100-year storm event. A summary of the results for the manholes, conduits capacity and major system ponding during the 100-year storm event are shown in **Table 4.2**.

Table 4.2 100-Year Storm Event System Performance Summary Table

Hydraulic Components	Number	Conditions
Minor Nodes (Flow to Surface)	**59**	Spill
Minor Nodes (Freeboard < 1.8m)	**67**	High Risk
Minor Nodes (Freeboard > 1.8m)	**47**	Low Risk
Surcharged Pipe (Backwater)	**50**	Surcharging
Surcharged Pipe (Over Capacity)	**54**	Surcharging
Free Flow Pipe	**72**	Free
Major Nodes (Ponding > 300mm)	**25**	Significant Flooding
Major Nodes (Ponding between 150 and 300mm)	**33**	Slight Flooding
Major Nodes (Ponding < 150mm)	**114**	No Flooding

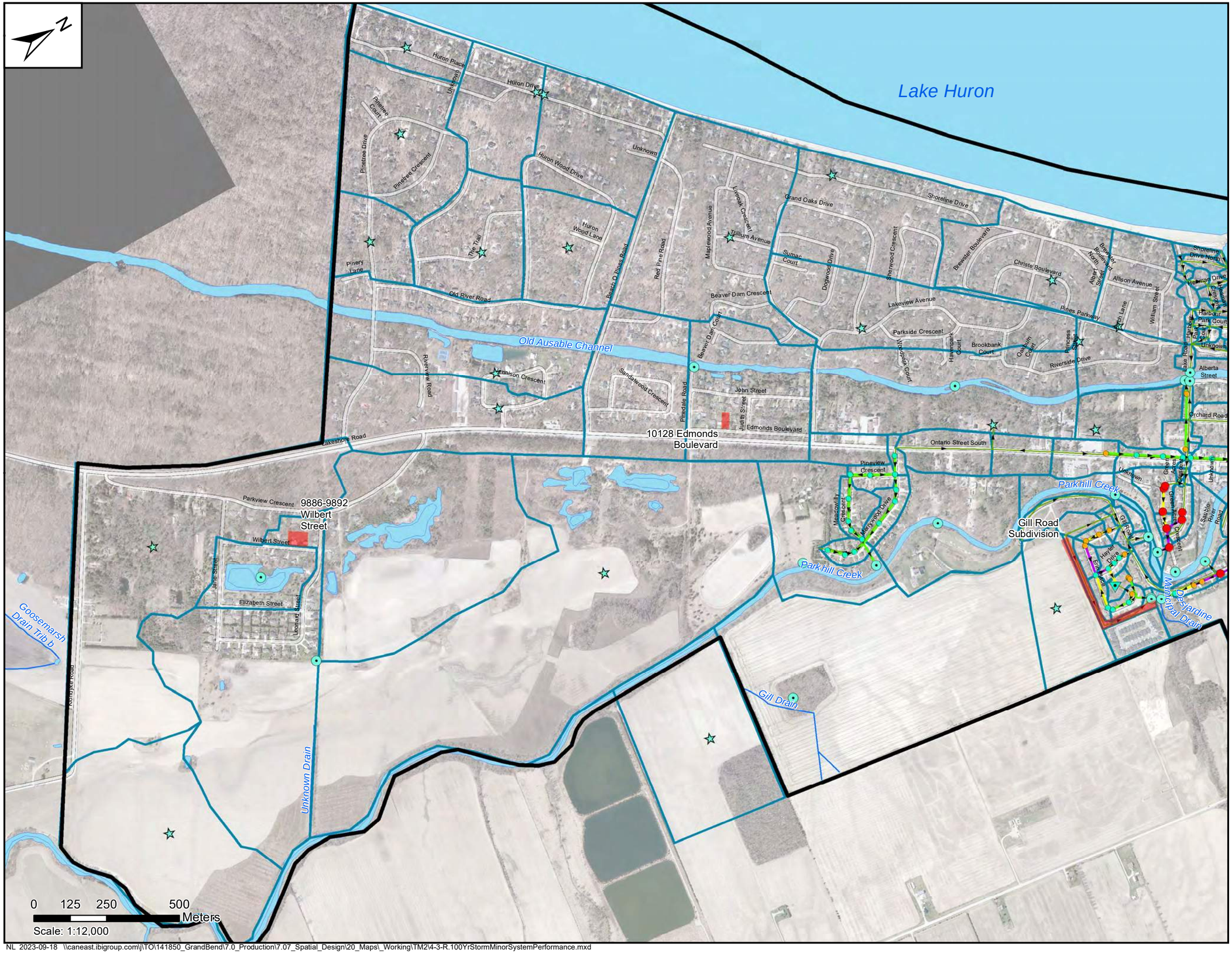


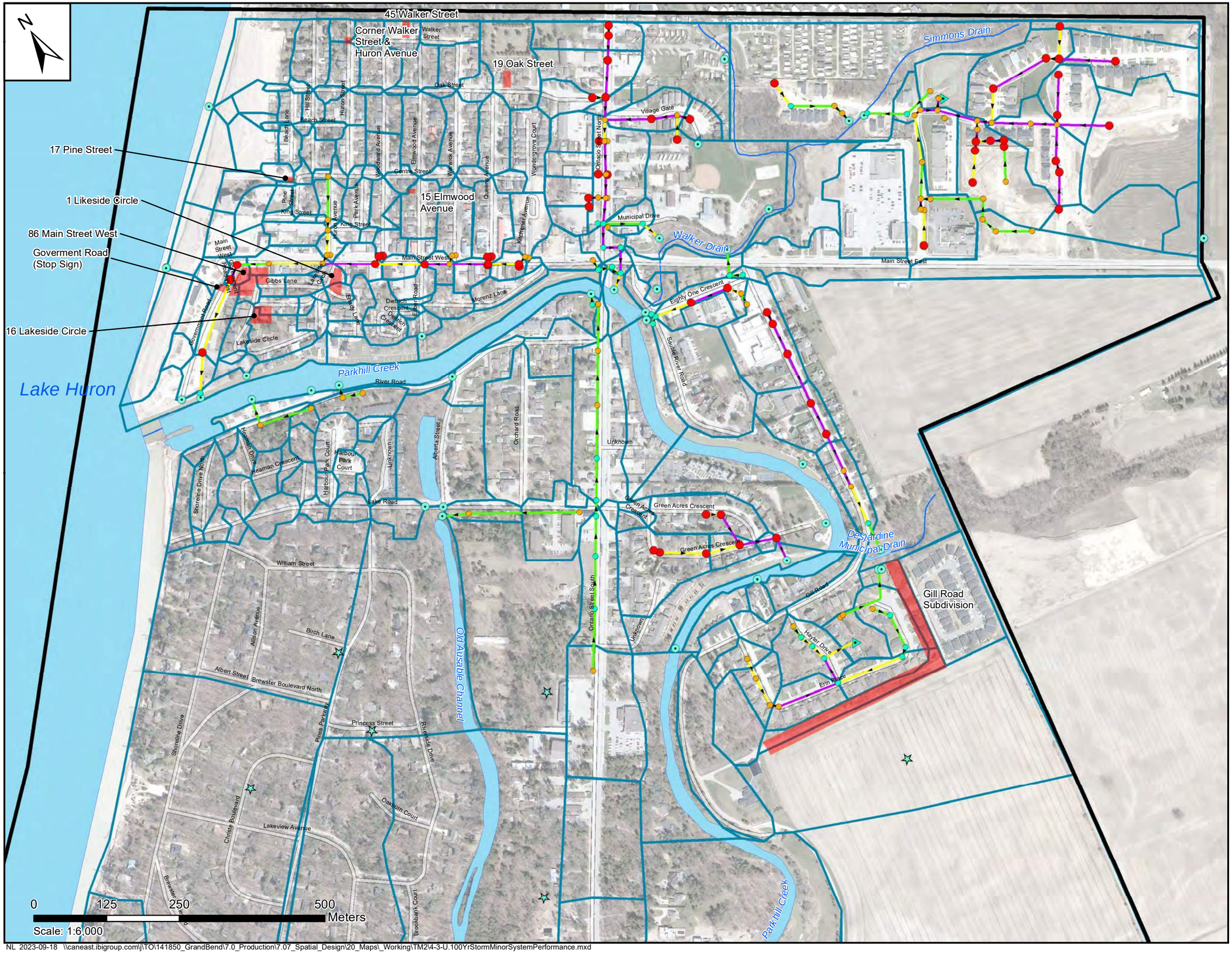
Figure 4-3-Rural
100-Year Storm Event
Minor System Performance

Grand Bend Stormwater Management Master Plan

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NL 2023-09-18 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\TM2\4-3-R.100YrStormMinorSystemPerformance.mxd



Key Map



Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Identified Problematic Area
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Subcatchment Areas

HGL Level During 100-Year Storm Event

- Flow to Surface
- Freeboard < 1.8m
- Freeboard > 1.8m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)

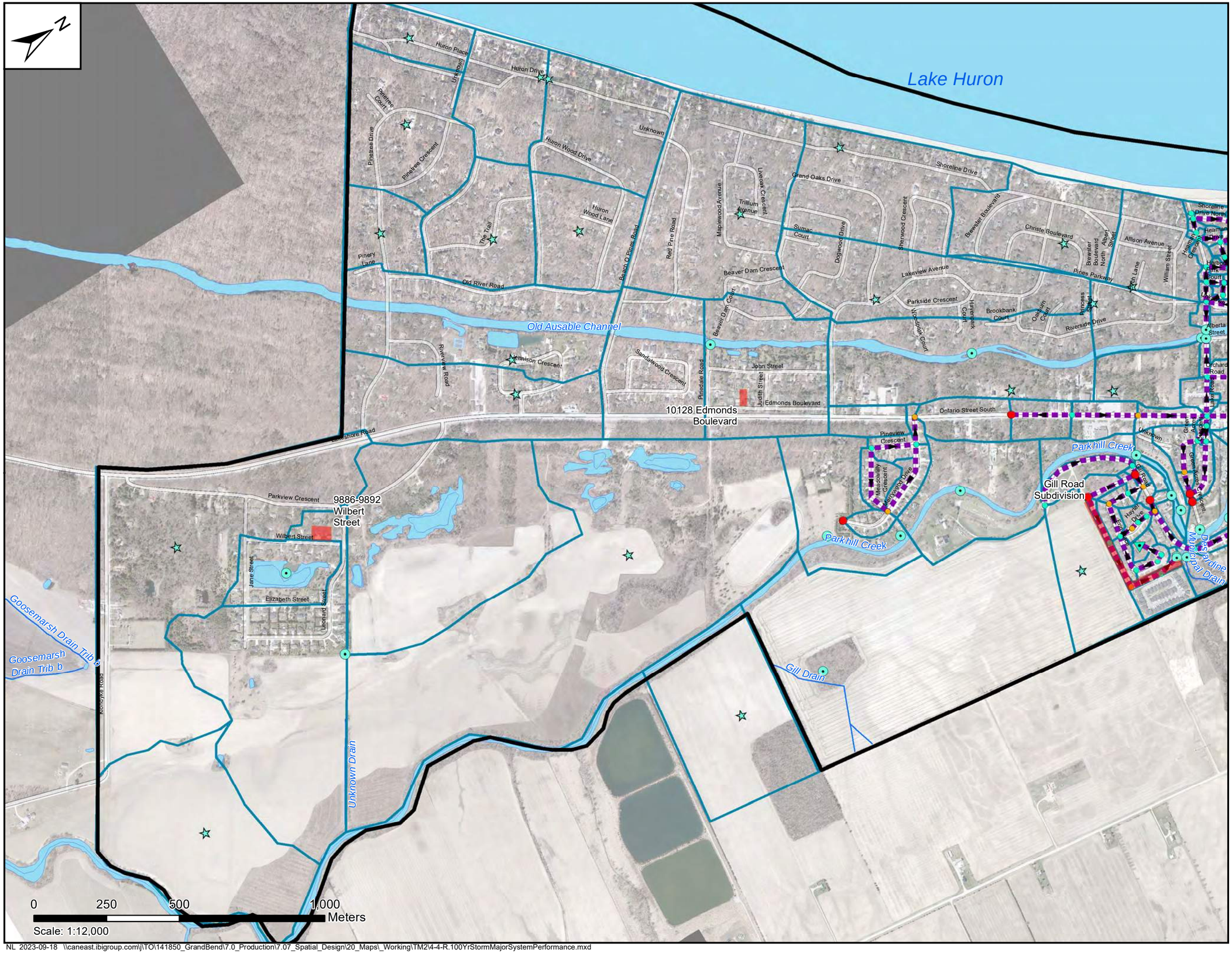
Figure 4-3-Urban
100-Year Storm Event
Minor System Performance

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	September 2023

NL 2023-09-18 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\TM2\4-3-U.100YrStormMinorSystemPerformance.mxd





Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Identified Problematic Area
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- SWM Pond
- Subcatchment Areas

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding <150mm
- Ponding between 150mm and 300mm
- Ponding > 300mm
- Major Conduit (Overland Flow Path)

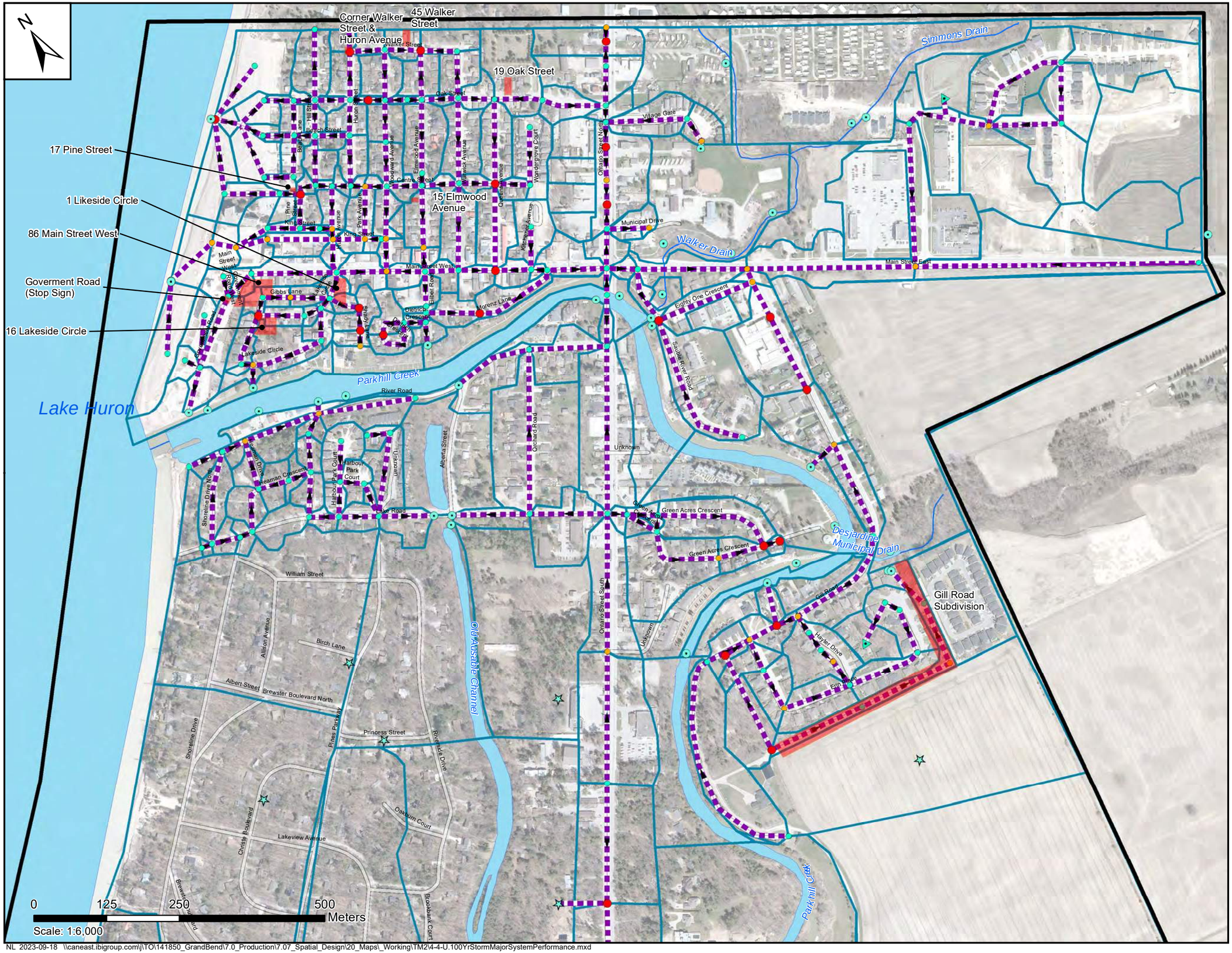
Figure 4-4-Rural 100-Year Storm Event Major System Performance

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	September 2023

NL 2023-09-18 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\TM2\4-4-R.100YrStormMajorSystemPerformance.mxd





Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Identified Problematic Area
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- SWM Pond
- Subcatchment Areas

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding <150mm
- Ponding between 150mm and 300mm
- Ponding > 300mm
- Major Conduit (Overland Flow Path)

Figure 4-4-Urban
100-Year Storm Event
Major System Performance

Grand Bend Stormwater Management Master Plan

ARCADIS IBI GROUP

Project No.	Date:
141850	September 2023

NL 2023-09-18 \\caneast.ibigroup.com\i\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\TM2\4-4-U.100YrStormMajorSystemPerformance.mxd

4.2 Future Conditions

Future Conditions consider the effects of Climate Change on IDF curves. A Climate Change Scenario, created by using the 100-year storm event scaled up by approximately 20%.

4.2.1 Climate Change

Climate change refers to any significant change in the measures of climate lasting for an extended period, which includes changes to rainfall distributions. Since stormwater runoff is a function rainfall, any changes to intensity, duration, and frequency of rainfall events have an impact on runoff.

Two (2) reports from the Institute for Catastrophic Loss Reduction (ICLR) have shown how changing rainfall patterns have affected SWM facility performance. One report discusses how several heavy rain events in the Toronto area with intensities exceeding the expected return period. It was found that during the period of 1987-2007, the highest precipitation values on average occurring once in a 20-year period (ICLR, 2012). The other report of relevance describes the growing issue of recurrent flood damage for municipalities, insurers and homeowners across Canada. In July of 2012, for example, a storm moved across southern Ontario resulting in $90 million in insured damages (ICLR, 2013). Another Ontario storm in 2005 resulted in over $500 million in insured damages, about half of which were caused by sewer backup. These types of events have led to municipalities facing litigation and homeowner experiencing insurance coverage limits, increasing premiums or cancellation of coverage after multiple basement flood events. Damages from overland flow are not covered under flood insurance in Canada.

Changes in rainfall patterns can have devastating social and economic effects due to Stormwater Management Facilities (SWMFs) struggling to effectively meet the objectives they were designed for. Therefore, the performance of storm sewers and SWMFs must account for these changes in rainfall to achieve sufficient capacity over their lifetime.

4.2.2 IDF Curve Update

As part of this work, we have reviewed the following:

- Identification of the Effect of Climate Change on Future Design Standards of Drainage Infrastructure in Ontario, prepared by McMaster University, June 2005. [McMaster Report];
- Localized Climate Projections for Waterloo Region, Final Report, prepared by Interdisciplinary Centre on Climate Change, University of Waterloo, December 2015. [Waterloo Report];
- Water Resources Research Report No: 065 Updated rainfall intensity duration frequency curves for the City of London under the changing climate, prepared by University of Western Ontario Department of Civile and Environmental Engineering, March 2009. [Western Report]; and,
- IDF Data and Climate Change. (n.d.). Retrieved from https://climatedata.ca/resource/idf-data-and-climate-change/ [Climate Change].

The following outline two (2) methods of IDF updates that were investigated:

1. London, Ontario
2. ClimateChange.ca

London, Ontario

Source: Western Report

Key finding:

> *Comparison between the updated IDF curves for modified data set (historic climate change scenario) and the EC IDF curves shows a difference that ranges between 10.7 % and 34.9% with average value of approximately 21%. Based on this comparison our recommendation to the City of London is to proceed with change of IDF curves in the range of 20%. Detailed economic analyses should be performed to justify the necessary investment that this change will require.*

The Western Report used the existing IDF equations, increased the rainfall intensity for a series of storm durations (30, 60, 120, etc. minutes) and used a curve-fitting equation to represent the revised intensity values. Specifically, for any given duration, the Climate Change intensity was 21% higher than existing values.

Adjusted IDF values are presented for both the Rational Method (storm sewer sizing) and Chicago Storm (stormwater management quantity pond sizing) below.

Table 4.3 Updated IDF Values - Rational Method – London Storm

IDF value	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year
A	22.3	29.1	33.6	39.3	43.5	47.7
B	-0.714	-0.724	-0.729	-0.734	-0.736	-0.738

Table 4.4 Updated IDF Values - Chicago Storm – London Storm

IDF value	2-Year	5-Year	25-Year	100-Year
A	858.368	1119.997	1578.983	1960.031
B	7.572	6.006	6.007	6.006
C	0.789	0.794	0.804	0.809

ClimateChange.ca

Source: ClimateChange.ca

Key finding:

Short-duration rainfall data, or Intensity-Duration-Frequency (IDF) data, are an important tool for decision-making about the risks of extreme precipitation. Because climate change is expected to increase extreme rainfall in Canada, IDF data based on historical observations alone are not appropriate for long-term decision-making. Environment and Climate Change Canada therefore recommends use of a scaling methodology, described in this article.

- For the location of interest, download historical IDF curve data from ClimateData.ca or develop based on guidance from ECCC and CSA PLUS 4013:2019. Use this data to determine historical estimated rainfall intensity (RC) for the storm duration and return period of interest;

- Determine an appropriate future timeframe and emissions scenario, and using ClimateData.ca, the Climate Atlas of Canada, or Climate Resilient Buildings and Core Public Infrastructure data, find the long-term (30-year mean) annual mean temperature change (ΔT) for your location, timeframe and emission scenario. Develop this information by using results from an ensemble of climate models; and,
- 3. Determine future estimated rainfall intensity value (RP) according to the equation: RP = RC x $1.07^{\Delta T.}$

For the 1971-2000 period, the annual average temperature in the Study Area was 8.1 ºC. Under a high emissions scenario, annual average temperatures are projected to be 10.6 ºC for the 2021-2050 period, 12.7 ºC for the 2051-2080 period and 14.5 ºC for the last 30 years of this century.

Therefore, the average change in future temperature (ΔT) for 2021-2080 is (12.7+14.5)/2 – 8.1 = 3.3

Consequently, for $RP = RC \times 1.07^{\Delta T}$

$1.07^{3.3} = 1.25$

Adjusted IDF values are presented for both the Rational Method (storm sewer sizing) and Chicago Storm (stormwater management quantity pond sizing) below.

Table 4.5 Updated IDF Values - Rational Method - ClimateChange.ca

IDF value	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year
A	27.9	36.4	42.0	49.1	54.4	59.6
B	-0.714	-0.724	-0.729	-0.734	-0.736	-0.738

Table 4.6 Updated IDF Values - Chicago Storm – ClimateChange.ca

IDF value	2-Year	5-Year	25-Year	100-Year
A	891.8	1307.1	1843.1	2300.7
B	8.25	9	9	9
C	0.838	0.861	0.87	0.877

Updated IDF formulae were generated from time/intensity pairs using Visual OTTHYMO model.

4.2.3 Impacts

4.2.3.1 Storm Sewers

The effects of climate change on conveyance systems were assessed by comparing future rainfall intensities to existing, specifically, comparing the 5-year intensities with an inlet time of 10 minutes, as these are representative of minor system conveyance structure requirements. Storm sewer capacity is a function of cross-sectional area, which is related to the square of the pipe diameter. Storm runoff rates are proportional to rainfall intensity. Therefore, a general relationship between pipe diameter and increase in rainfall intensity (with tc = 10 minutes) can be developed as follows:

$$D2/D1 = \sqrt{(i2/i1)}$$

Where D1 = diameter for intensity 1

D2 = diameter for intensity 2

i1 = intensity 1

i2 = intensity 2

Based on the example above, climate change could compromise the efficacy of existing and proposed conveyance structures if current IDF curves are not updated to reflect projected changes in precipitation intensities. It is therefore recommended that the Municipality investigate the update of their IDF curves for future conditions.

4.2.3.2 SWMFs

Another concern relates to the impact of increased IDF values on the function of existing and proposed SWMFs for quantity control.

Existing ponds were typically designed to control post development flows to predevelopment levels. As these ponds age, and storm intensities increase, the attenuation offered by these SWMFs decreases, as the post development flows are greater than the original design parameters.

As part of this Technical Memorandum, we have also looked at the impact on existing and future pond performances using both sets of IDF data. The results are summarized in **Table 4.7** and **Table 4.8** below.

Table 4.7 100-year Pond Performance Existing vs. Future

Storage Unit Id	Existing Condition			Future Climate Change		
	Outflow (m^3/s)	Volume (m^3)	Max. depth (m)	Outflow (m^3/s)	Volume (m^3)	Max. depth (m)
Gill_RD_Pond	0.14	1545	2.06	0.14	1535	2.05
Rice_Pond	0.293	7480	3.59	0.293	7488	3.59

Table 4.8 5-year Pond Performance Existing vs. Future

Storage Unit Id	Existing Condition			Future Climate Change		
	Outflow (m^3/s)	Volume (m^3)	Max. depth (m)	Outflow (m^3/s)	Volume (m^3)	Max. depth (m)
Gill_RD_Pond	0.098	938	1.5	0.097	931	1.5
Rice_Pond	0.175	5010	2.97	0.175	5010	2.97

Based on the foregoing, we would recommend in future that the current IDF curves be used to establish “pre-development” target release rates, but the increased IDF curves be used to model post development flows.

5 Identify Problem Areas

The following section describes the known Problem Areas identified by the Municipality and how they relate to the model output. The problem areas were shown in the system performance maps.

A comparison table below summarizes the overlapping problem area and the flooding area reported in the model but not identified by the client.

Table 5.1 Problem Area Comparison

Description	Location
Problem area overlapped	16 Lakeside Circle; 1 Lakeside Circle, 17 Pine Street, Corner of Walker Street and Huron Street, and 45 Walker Street.
Problem area only Reported from Model	Green Acres Crescent intersection, Morzen Lane between Eilber Road and Main Street West; Suable River Rd at 81st Crescent, Shady Lane, Dietrich Crescent, Ontario Street North, Gill Road
Problem Area only Reported by the client	19th Oak Street, 15 Elmwood, Government Road and 86 Main Street West

6 Discussion and Conclusion

6.1 Conclusion

The baseline model found that the existing storm network is over capacity. In some areas, the HGL in the storm sewer is expected to reach the basement floor slab elevation in a 100-year storm event. The major system generally has adequate capacity, however in many areas drains to low points with insufficient outlets. In many of the modelled areas, the storm sewers are significantly over capacity with relatively low depth of flow on the road. Additional capture, including new catch basins, were investigated to improve the overland drainage and ponding on roads that may lead to surface flooding. Some of the storm sewers are over capacity and surcharging to the surface in minor events, so additional catch basins will not effectively capture ponding or significant overland flow. Future development and intensification can consider more rigorous stormwater management requirements. Potential solutions will focus on the use of inlet control devices (ICDs), overland drainage improvements. ICDs could be applied to areas where the minor system required additional capacity to alleviate the HGL and allow for additional inlet capacity at other locations.

Following the completion of the baseline model and assessment of the results, potential solutions to reduce flooding in the Study Area will be developed in TM#3. Specific methodologies for solution development varied based on the servicing type present throughout the area.

6.2 Recommendations

It is expected through the application of the model some anomalies may still be identified that will require further correction to the model. Any future improvements through the application of the model will be documented in TM#3 and provided to the Municipality.

Appendix A

References

1. Ontario Geological Survey
2. Geotechnical Reports List
3. Received As-built Drawings List Table

Geotechnical Report List Table

ITEM	REPORT NAME	NOTE
1	Geotechnical Investigation Report, Proposed Sanitary & WM Trenchless Crossing - c. Englobe	Site within urban area
2	GB Condo Corp Development - Geotechnical Report - LVM	Site within urban area
3	Rice Subdivision SWM Report – AECOM	Site within urban area, report including Geotech info.
4	Geotechnical Investigation Proposed Upgrades, Sewage Treatment Facility – Golder	Outside of the Study Area

As-Built drawings List Table

DRAWING SET ID#	NAME
1	Deerfield/Rice Subdivision
2	Gill Rd Subdivision
3	Ontario Street N Reconstruction
4	ONTARIO ST S
5	Main Street W Enhancement
6	HWY 81-MAIN ST E
7	Gill Rd Reconstruction
8	Harbour Park
9	Leonard-Elizabeth St
10	Merrywood Meadows
11	Morenz Eilber Reconstruction
12	Vandogen Subdivision
13	Village Crossing Phase 2
14	WeeLakes (Jennison Cres)
15	Government RD - Lakeside Cr
16	Sauble River Road - As built
17	Red Pine-Sandalwood

Ministry of Natural Resources
Ontario

Hon. Frank S. Miller
Minister

Dr. J. K. Reynolds
Deputy Minister

Ontario Geological Survey

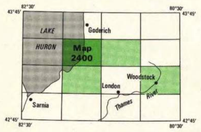
Map 2400

GRAND BEND

Southern Ontario

Quaternary Geology

NTS 40P/5 Scale 1:50 000



MAP COVERAGE: INDUSTRIAL MINERALS, QUATERNARY, OR PLEISTOCENE GEOLOGY SERIES (EXCLUDING PRELIMINARY MAPS)

HURON COUNTY

STANLEY

STEPHEN

HAY

BOSANQUET

LAKE HURON

Grand Bend
Zurich
Hensall
Dashwood
Crediton
Shipka
Dewey Point
Drysdale
St Joseph
Harpley
Parkhill
Kippen
Exeter
Tuckersmith
Huron Park
Pinery Provincial Park
Ausable River
Bayfield River
Lake Warren
Wyoming Moraine
Grand Bend Airport

LAMBTON COUNTY

HURON COUNTY

MIDDLESEX COUNTY

Adjoins Map 2402

Adjoins Map 2386

Published 1977

Scale 1:50 000

Metres 1000 0 1 2 3 4 5 6 7 Kilometres

Chains 80 40 0 1 2 3 Miles

LEGEND

CENOZOIC

QUATERNARY

RECENT

13 *13 Alluvium; stream deposits of gravel, sand, and silt.*

12 *12 Organic deposits; peat, muck and marl.*

PLEISTOCENE

LATE WISCONSINAN

11 *11 Windblown deposits; sand and silt.*

10 *10 Older alluvium; gravel, sand, and silt, occasionally fossiliferous.*

9 *9 Glaciolacustrine deposits (deep water); sand, silt, and clay.*

8 *8 Glaciolacustrine deposits (shoreline and shallow water); gravel and sand.*

7 *7 Glaciofluvial outwash deposits; gravel, minor sand.*

6 *6 Glaciofluvial outwash deposits; sand, minor gravel.*

5 *5 ST. JOSEPH TILL; clayey silt to silty clay till.*

4 *4 Southern till; silty clay till.*

3 *3 RANNOCH TILL; clayey silt to silt till.*

2 *2 Ice-contact stratified drift; sand, minor gravel.*

UNCONFORMITY

PALEOZOIC

DEVONIAN†

1 *1 HAMILTON FORMATION; grey shale and limestone.*

Deposits on this sheet are mapped only where they reach three feet or more in thickness. Thinner deposits are not shown.

†*Occurs only on companion sheet.*

SYMBOLS

- *Hummocky topography.*
- *Trend of moraine crest.*
- *Small meltwater channel; inferred direction of flow.*
- *Shore bluff or scarp.*
- *Abandoned shoreline.*
- *Beach ridge, nearshore bar.*
- *Dune; dune field.*
- *Small bedrock outcrop.*
- *Geological boundary, approximate.*
- *Sink hole; solution weathering site.*
- *Sand, gravel pit.*
- *Clay pit; active, abandoned.*
- 534 *Till sample location.*
- *Topographic contours, elevation in feet.*
- *County, Regional Municipality boundary.*
- *Geographic township, Indian Reserve boundary.*

For other conventional symbols refer to 1:50 000 National Topographic System maps.

SOURCES OF INFORMATION

Geology by A. J. Cooper and assistants, Geological Branch, 1974.

Aerial photography: Forest Resources Inventory, Ministry of Natural Resources, Toronto; National Air Photo Library, Department of Energy, Mines and Resources, Ottawa.

Water well records of the Ontario Water Resources Commission, Ministry of the Environment, gas and oil well records of the Petroleum Resources Branch, Ministry of Natural Resources.

Preliminary map (ODM) P. 974, Quaternary Geology of the Grand Bend Area, Scale 1:50 000, Issued 1974.

Cartography P. A. Wilzbey and assistants, Surveys and Mapping Branch, 1977.

Topography from map 40P/5 of the National Topographic System.

Magnetic declination in the area was approximately 5° West in 1975.

Appendix B

Model Input Data

1. Catchment Parameter Summary Table
2. Storm Outfall Summary Table

Subcatchment Parameters Summary Table

Parameters	Description
Area	Were calculated in PCSWMM using the subcatchment GIS coordinates
Slope	Was assumed to be 0.5 % for all urban subcatchments and 1.5% for rural subcatchments
width	Defined as subcatchment area divided by the average maximum overland flow path length.
flow path length	was estimated to be 30 m for the small urban subcatchments. Rural subcatchments that had an area greater than 5 ha but less than 10 ha were given a flow length of 100 m and subcatchments greater than 10 ha were assigned a flow length of 150 m.
Roughness	0.011 (representative of “smooth asphalt”) was assigned to impervious areas and 0.240 (representative of “dense grasses”) was assigned to the pervious areas
Depression Storage	Depression storage values of 2 mm and 5 mm were assigned to impervious and pervious areas respectively as recommended in the SWMM5 User’s Guidelines.
Percent Imperviousness	A value of 55% was used in the urban residential areas, and in areas defined as being zoned as open space a value of 0-5% was used.
Infiltration	Modified Horton Method
Subarea routing	Routing to “Outlet”

Storm Outfall Summary Table

OUTFALL ID#	TYPE	INVERT ELEV. (M)	TAIL WATER ELEV. (M)	LOCATION
OF1-M	FREE	175	/	Urban
OF2-M	FREE	177.101	/	Urban
OF3-M	FREE	177.732	/	Urban
OF3	FREE	176	/	Urban
OF4-M	FREE	175.62	/	Urban
OF5-M	FREE	182.86	/	Urban
OF6	FREE	175.5	/	Urban
OF7-M	FREE	177.134	/	Urban
OF8	FREE	176	/	Urban
OF9-M	FREE	179.038	/	Urban
OF10-	FREE	183	/	Urban
OF11-M	FREE	183.1	/	Urban
OF12	FREE	179.15	/	Urban
OF13	FREE	180.31	/	Urban
OF14	FREE	179.546	/	Urban
OF15-	FREE	177	/	Urban
OF16	FREE	177	/	Urban
OF17	FIXED	177.8	177.15	Urban
OF18-M	FREE	179.15	/	Urban
OF19	FIXED	178.149	176.37	Urban
OF20	FREE	179.15	/	Urban
OF21-	FREE	179.15	/	Urban
OF22_M	FREE	181.25	/	Urban
OF23-M	FREE	177.5	/	Urban
OF24	FREE	177.26	/	Urban
OF25	FREE	177.59	/	Urban
OF26-M	FREE	178.525	/	Urban
OF27-	FIXED	177.184	176.16	Urban
OF27-M	FREE	178.86	/	Urban
OF28	FREE	181	/	Urban
OF29	FREE	178.628	/	Urban
OF30-M	FREE	179.827	/	Urban
OF31-M	FREE	181.379	/	Urban
OF32-M	FREE	184.92	/	Urban
OF33	FIXED	177.03	176.36	Urban
OF34	FREE	/	/	Rural
OF35	FREE	/	/	Rural
OF36	FREE	/	/	Rural
OF37	FREE	/	/	Rural
OF38	FREE	/	/	Rural
OF39	FREE	/	/	Rural
OF40	FREE	/	/	Rural
OF41	FREE	/	/	Rural
OF42	FREE	/	/	Rural

OUTFALL ID#	TYPE	INVERT ELEV. (M)	TAIL WATER ELEV. (M)	LOCATION
OF43	FREE	/	/	Rural
OF44	FREE	/	/	Rural
OF45	FREE	/	/	Rural
OF46	FREE	/	/	Rural
OF47	FREE	/	/	Rural
OF48	FREE	/	/	Rural
OF49	FREE	/	/	Rural
OF50	FREE	/	/	Rural
OF51	FREE	/	/	Rural
OF52	FREE	/	/	Rural
OF53	FREE	/	/	Rural
OF54	FREE	/	/	Rural
OF55	FREE	/	/	Rural
OF56	FREE	/	/	Rural
OF57	FREE	/	/	Rural
OF58	FREE	/	/	Rural
OF59	FREE	/	/	Rural
OF60	FREE	/	/	Rural
OF61	FREE	/	/	Rural
OF62	FREE	/	/	Urban

Appendix C

Model Output Data

1. 5-Year storm Output
2. 100-Year storm Output

5-year storm

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.015)
--------------------------------------------------------------

WARNING 04: minimum elevation drop used for Conduit C672
WARNING 08: elevation drop exceeds length for Conduit C709
WARNING 03: negative offset ignored for Link C94

*************
Element Count
*************
Number of rain gages ...... 6
Number of subcatchments ... 272
Number of nodes ........... 413
Number of links ........... 451
Number of pollutants ...... 0
Number of land uses ....... 0


****************
Raingage Summary
****************
                                                 Data       Recording
Name                 Data Source                 Type       Interval
----------------------------------------------------------------------
100-yr_Chicago_4h_current 100-yr_Chicago_4h_current      INTENSITY   10 min.
100-yrChicago_4h_climate_change 100-yrChicago_4h_climate_change INTENSITY   10 min.
100yr-Climate_Change_Chicago_24h 100yr-Climate_Change_Chicago_24h INTENSITY    5 min.
100-yr-Historical-Chicago-24h 100-yr-Historical-Chicago-24h  INTENSITY    5 min.
5yr-Climate_Change_Chicago_24h 5yr-Climate_Change_Chicago_24h INTENSITY    5 min.
5yr-Historical_Chicago_24h 5yr-Historical_Chicago_24h     INTENSITY    5 min.


*******************
Subcatchment Summary
*******************
Name                         Area     Width    %Imperv    %Slope Rain Gage            Outlet
-----------------------------------------------------------------------------------------------
Rural_1                      6.93    693.09     40.00    1.5000 5yr-Historical_Chicago_24h OF55
Rural_10                    33.34   2222.61     40.00    1.5000 5yr-Historical_Chicago_24h OF46-
Rural_11                     0.47    117.85     40.00    1.5000 5yr-Historical_Chicago_24h MJ5
```

Rural_12	22.22	1481.37	40.00	1.5000	5yr-Historical_Chicago_24h	OF45-
Rural_13	22.63	1508.50	40.00	1.5000	5yr-Historical_Chicago_24h	OF44-
Rural_14	17.01	1133.79	40.00	1.5000	5yr-Historical_Chicago_24h	OF42-
Rural_15	19.30	1286.64	40.00	1.5000	5yr-Historical_Chicago_24h	OF47-
Rural_16	26.34	1756.25	40.00	1.5000	5yr-Historical_Chicago_24h	OF43-
Rural_16-2_1	6.17	617.28	40.00	1.5000	5yr-Historical_Chicago_24h	OF41-
Rural_16-2_2	7.41	740.63	40.00	1.5000	5yr-Historical_Chicago_24h	OF40-
Rural_17	2.77	692.27	40.00	1.5000	5yr-Historical_Chicago_24h	OF28-
Rural_17_1	2.85	711.70	40.00	1.5000	5yr-Historical_Chicago_24h	MJ7
Rural_17_2	15.18	1012.09	40.00	1.5000	5yr-Historical_Chicago_24h	OF34-
Rural_17_4	13.48	898.39	7.00	1.5000	5yr-Historical_Chicago_24h	OF36-
Rural_18	10.27	1027.27	0.00	1.5000	5yr-Historical_Chicago_24h	OF35-
Rural_19	56.92	3794.74	0.00	1.5000	5yr-Historical_Chicago_24h	OF37-
Rural_2	19.33	1932.61	40.00	1.5000	5yr-Historical_Chicago_24h	OF56
Rural_20	24.28	2427.98	0.00	1.5000	5yr-Historical_Chicago_24h	OF38-
Rural_21	97.14	6475.83	0.00	1.5000	5yr-Historical_Chicago_24h	OF48-
Rural_22	42.10	2806.98	7.00	1.5000	5yr-Historical_Chicago_24h	OF58
Rural_23	51.76	3450.73	16.00	1.5000	5yr-Historical_Chicago_24h	OF60
Rural_24	7.67	1916.28	39.00	1.5000	5yr-Historical_Chicago_24h	OF59
Rural_25	39.85	2656.49	12.00	1.5000	5yr-Historical_Chicago_24h	OF58
Rural_26	32.24	2149.19	0.00	1.5000	5yr-Historical_Chicago_24h	OF61
Rural_27	9.02	901.70	40.00	1.5000	5yr-Historical_Chicago_24h	OF39-
Rural_29	17.03	1135.65	40.00	1.5000	5yr-Historical_Chicago_24h	OF47-
Rural_3	7.28	727.85	40.00	1.5000	5yr-Historical_Chicago_24h	OF57
Rural_4	27.11	1807.37	40.00	1.5000	5yr-Historical_Chicago_24h	OF53
Rural_5	11.25	1124.69	40.00	1.5000	5yr-Historical_Chicago_24h	OF51
Rural_6	13.81	1380.92	40.00	1.5000	5yr-Historical_Chicago_24h	OF52
Rural_7	17.28	1152.22	40.00	1.5000	5yr-Historical_Chicago_24h	OF49-
Rural_8	12.76	850.42	40.00	1.5000	5yr-Historical_Chicago_24h	OF50
Rural_9	22.61	1507.37	40.00	1.5000	5yr-Historical_Chicago_24h	OF54
UC1	1.33	443.23	20.00	0.5000	5yr-Historical_Chicago_24h	MJ71
UC10	0.27	88.36	55.00	0.5000	5yr-Historical_Chicago_24h	MJ130
UC100	0.16	53.27	55.00	0.5000	5yr-Historical_Chicago_24h	OF4-M
UC11	1.25	416.49	55.00	0.5000	5yr-Historical_Chicago_24h	MJ130
UC111	0.06	18.46	55.00	0.5000	5yr-Historical_Chicago_24h	MJ19
UC112	0.70	234.53	55.00	0.5000	5yr-Historical_Chicago_24h	MJ19
UC113	0.59	195.81	55.00	0.5000	5yr-Historical_Chicago_24h	MJ34
UC114	0.17	57.05	55.00	0.5000	5yr-Historical_Chicago_24h	MJ21
UC115	0.24	81.58	20.00	0.5000	5yr-Historical_Chicago_24h	MJ23
UC116	0.57	190.77	55.00	0.5000	5yr-Historical_Chicago_24h	MJ13
UC117	0.39	129.17	55.00	0.5000	5yr-Historical_Chicago_24h	MJ13

UC118	0.21	71.29	55.00	0.5000	5yr-Historical_Chicago_24h	MJ13
UC119	0.33	109.09	55.00	0.5000	5yr-Historical_Chicago_24h	MJ13
UC12	0.91	302.53	55.00	0.5000	5yr-Historical_Chicago_24h	MH2_S
UC120	1.43	475.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ135
UC121	0.29	96.14	25.00	0.5000	5yr-Historical_Chicago_24h	MJ26
UC122	0.30	100.59	55.00	0.5000	5yr-Historical_Chicago_24h	MJ105
UC123	0.15	51.62	55.00	0.5000	5yr-Historical_Chicago_24h	MJ87
UC124	0.24	80.00	55.00	0.5000	5yr-Historical_Chicago_24h	MJ74
UC125	0.30	30.34	25.00	0.5000	5yr-Historical_Chicago_24h	MJ25
UC126	0.08	26.84	55.00	0.5000	5yr-Historical_Chicago_24h	MJ114
UC127	0.40	134.31	55.00	0.5000	5yr-Historical_Chicago_24h	MJ120
UC128	0.03	8.82	55.00	0.5000	5yr-Historical_Chicago_24h	MJ114
UC129	0.04	14.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ103
UC13	1.12	372.27	55.00	0.5000	5yr-Historical_Chicago_24h	MH3_S
UC130	0.16	54.47	25.00	0.5000	5yr-Historical_Chicago_24h	MJ44
UC131	0.07	22.34	55.00	0.5000	5yr-Historical_Chicago_24h	MJ97
UC132	0.12	38.54	55.00	0.5000	5yr-Historical_Chicago_24h	MJ91
UC133	0.26	85.91	20.00	0.5000	5yr-Historical_Chicago_24h	MJ35
UC134	0.07	23.97	55.00	0.5000	5yr-Historical_Chicago_24h	MJ77
UC135	0.35	118.31	20.00	0.5000	5yr-Historical_Chicago_24h	MJ27
UC136	0.02	7.51	55.00	0.5000	5yr-Historical_Chicago_24h	MJ61
UC137	0.16	53.32	25.00	0.5000	5yr-Historical_Chicago_24h	MJ30
UC138	0.20	65.32	25.00	0.5000	5yr-Historical_Chicago_24h	MJ14
UC139	0.05	15.79	25.00	0.5000	5yr-Historical_Chicago_24h	MJ10
UC14	0.46	152.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ143
UC140	0.13	43.41	25.00	0.5000	5yr-Historical_Chicago_24h	MJ1
UC141	0.27	91.09	25.00	0.5000	5yr-Historical_Chicago_24h	MJ1
UC142	0.13	43.51	25.00	0.5000	5yr-Historical_Chicago_24h	MJ2
UC143	0.59	195.95	25.00	0.5000	5yr-Historical_Chicago_24h	MJ2
UC144	0.34	114.43	25.00	0.5000	5yr-Historical_Chicago_24h	MJ31
UC145	0.38	128.10	25.00	0.5000	5yr-Historical_Chicago_24h	MJ31
UC146	0.45	151.56	25.00	0.5000	5yr-Historical_Chicago_24h	MJ30
UC147	0.16	51.99	25.00	0.5000	5yr-Historical_Chicago_24h	MJ20
UC148	0.17	55.60	25.00	0.5000	5yr-Historical_Chicago_24h	MJ32
UC149	0.30	98.86	25.00	0.5000	5yr-Historical_Chicago_24h	MJ32
UC15	0.22	72.23	55.00	0.5000	5yr-Historical_Chicago_24h	MH8_S
UC150	0.63	210.22	20.00	0.5000	5yr-Historical_Chicago_24h	MJ27
UC151	0.23	78.08	55.00	0.5000	5yr-Historical_Chicago_24h	MJ57
UC152	0.15	48.86	55.00	0.5000	5yr-Historical_Chicago_24h	MJ3
UC153	0.48	159.93	55.00	0.5000	5yr-Historical_Chicago_24h	MJ3
UC154	0.65	217.20	55.00	0.5000	5yr-Historical_Chicago_24h	MJ3

UC155	0.19	62.55	55.00	0.5000	5yr-Historical_Chicago_24h	MJ45
UC156	0.54	181.16	55.00	0.5000	5yr-Historical_Chicago_24h	MJ25
UC157	0.46	152.01	55.00	0.5000	5yr-Historical_Chicago_24h	OF31-M
UC158	0.73	243.70	5.00	0.5000	5yr-Historical_Chicago_24h	MH_11
UC159	0.12	38.43	55.00	0.5000	5yr-Historical_Chicago_24h	CBMH5_ON
UC16	0.50	166.28	55.00	0.5000	5yr-Historical_Chicago_24h	CB15
UC160	1.93	642.25	55.00	0.5000	5yr-Historical_Chicago_24h	MJ152
UC161	0.97	324.28	5.00	0.5000	5yr-Historical_Chicago_24h	MJ155
UC162	0.37	122.53	55.00	0.5000	5yr-Historical_Chicago_24h	J127
UC163	0.08	25.95	55.00	0.5000	5yr-Historical_Chicago_24h	CB23
UC164	0.35	116.48	55.00	0.5000	5yr-Historical_Chicago_24h	CB17
UC165	2.97	991.03	35.00	0.5000	5yr-Historical_Chicago_24h	MJ152
UC166	0.53	175.10	5.00	0.5000	5yr-Historical_Chicago_24h	OF62
UC167	0.61	204.17	55.00	0.5000	5yr-Historical_Chicago_24h	OF6-
UC168	0.16	51.90	55.00	0.5000	5yr-Historical_Chicago_24h	MJ63
UC169	1.73	578.26	55.00	0.5000	5yr-Historical_Chicago_24h	MJ154
UC17	0.82	272.45	55.00	0.5000	5yr-Historical_Chicago_24h	MJ125
UC170	1.52	507.66	5.00	0.5000	5yr-Historical_Chicago_24h	MJ155
UC171	1.20	401.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ153
UC172	2.02	674.77	15.00	0.5000	5yr-Historical_Chicago_24h	MJ154
UC173	2.17	724.79	55.00	0.5000	5yr-Historical_Chicago_24h	MJ152
UC174	1.55	516.31	55.00	0.5000	5yr-Historical_Chicago_24h	MJ148
UC175	0.11	36.39	55.00	0.5000	5yr-Historical_Chicago_24h	MJ147
UC176	0.22	74.81	55.00	0.5000	5yr-Historical_Chicago_24h	MJ134
UC177	0.82	272.09	55.00	0.5000	5yr-Historical_Chicago_24h	MJ148
UC178	0.79	263.61	55.00	0.5000	5yr-Historical_Chicago_24h	OF9-M
UC179	0.43	141.99	55.00	0.5000	5yr-Historical_Chicago_24h	OF30-M
UC18	0.68	227.09	55.00	0.5000	5yr-Historical_Chicago_24h	MJ130
UC180	3.20	1067.16	55.00	0.5000	5yr-Historical_Chicago_24h	MJ100
UC181	0.76	254.77	55.00	0.5000	5yr-Historical_Chicago_24h	MJ100
UC182	1.10	367.89	55.00	0.5000	5yr-Historical_Chicago_24h	MJ70
UC183	2.34	778.67	55.00	0.5000	5yr-Historical_Chicago_24h	MJ122
UC184	0.11	35.65	55.00	0.5000	5yr-Historical_Chicago_24h	MJ99
UC185	0.11	35.03	55.00	0.5000	5yr-Historical_Chicago_24h	MJ107
UC186	0.05	15.93	55.00	0.5000	5yr-Historical_Chicago_24h	MJ104
UC187	0.14	45.38	55.00	0.5000	5yr-Historical_Chicago_24h	MJ104
UC188	1.25	417.00	55.00	0.5000	5yr-Historical_Chicago_24h	MJ129
UC189	1.78	592.86	55.00	0.5000	5yr-Historical_Chicago_24h	MJ116
UC19	0.74	247.66	55.00	0.5000	5yr-Historical_Chicago_24h	MJ108
UC190	0.38	127.82	55.00	0.5000	5yr-Historical_Chicago_24h	MJ129
UC191	0.09	29.27	55.00	0.5000	5yr-Historical_Chicago_24h	MJ132

UC192	2.38	792.09	55.00	0.5000	5yr-Historical_Chicago_24h	MJ134
UC193	0.63	209.65	55.00	0.5000	5yr-Historical_Chicago_24h	MJ147
UC194	1.71	571.06	55.00	0.5000	5yr-Historical_Chicago_24h	MH21_S
UC195	1.13	377.67	55.00	0.5000	5yr-Historical_Chicago_24h	MJ146
UC196	0.60	200.27	55.00	0.5000	5yr-Historical_Chicago_24h	Gill_RD_Pond
UC197	0.77	256.83	55.00	0.5000	5yr-Historical_Chicago_24h	MJ124
UC198	0.77	257.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ145
UC199	0.23	75.93	55.00	0.5000	5yr-Historical_Chicago_24h	OF26-M
UC2	0.69	228.67	55.00	0.5000	5yr-Historical_Chicago_24h	MJ84
UC20	0.91	303.91	55.00	0.5000	5yr-Historical_Chicago_24h	MJ101
UC200	0.40	132.98	55.00	0.5000	5yr-Historical_Chicago_24h	MJ119
UC201	1.05	349.75	55.00	0.5000	5yr-Historical_Chicago_24h	MH34_S
UC202	0.87	290.43	55.00	0.5000	5yr-Historical_Chicago_24h	MJ139
UC203	0.66	221.28	55.00	0.5000	5yr-Historical_Chicago_24h	MJ128
UC204	0.79	263.60	55.00	0.5000	5yr-Historical_Chicago_24h	MJ128
UC205	0.39	130.87	55.00	0.5000	5yr-Historical_Chicago_24h	MJ112
UC206	2.25	751.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ95
UC207	0.96	320.57	55.00	0.5000	5yr-Historical_Chicago_24h	J1
UC208	0.57	191.63	55.00	0.5000	5yr-Historical_Chicago_24h	MJ110
UC209	0.38	125.76	55.00	0.5000	5yr-Historical_Chicago_24h	MJ112
UC21	0.42	139.13	55.00	0.5000	5yr-Historical_Chicago_24h	MJ103
UC210	1.55	516.08	55.00	0.5000	5yr-Historical_Chicago_24h	MJ92
UC211	2.79	930.15	55.00	0.5000	5yr-Historical_Chicago_24h	MJ67
UC212	2.81	937.22	55.00	0.5000	5yr-Historical_Chicago_24h	MJ22
UC213	4.46	1486.35	55.00	0.5000	5yr-Historical_Chicago_24h	MJ22
UC214	0.61	203.69	55.00	0.5000	5yr-Historical_Chicago_24h	MJ7
UC215	1.27	423.54	55.00	0.5000	5yr-Historical_Chicago_24h	MJ15
UC216	1.99	663.06	55.00	0.5000	5yr-Historical_Chicago_24h	MJ36
UC217	1.96	652.18	55.00	0.5000	5yr-Historical_Chicago_24h	MJ36
UC218	1.20	400.42	55.00	0.5000	5yr-Historical_Chicago_24h	MJ24
UC219	0.14	46.27	55.00	0.5000	5yr-Historical_Chicago_24h	MJ122
UC22	0.39	130.02	55.00	0.5000	5yr-Historical_Chicago_24h	MJ89
UC220	0.03	9.20	55.00	0.5000	5yr-Historical_Chicago_24h	MJ131
UC221	0.13	42.97	55.00	0.5000	5yr-Historical_Chicago_24h	MJ136
UC222	0.31	104.56	55.00	0.5000	5yr-Historical_Chicago_24h	MJ135
UC223	0.26	87.52	55.00	0.5000	5yr-Historical_Chicago_24h	MJ135
UC224	0.37	123.74	55.00	0.5000	5yr-Historical_Chicago_24h	MJ151
UC225	0.73	243.33	55.00	0.5000	5yr-Historical_Chicago_24h	MH8_S
UC226	1.64	548.17	5.00	0.5000	5yr-Historical_Chicago_24h	MH_34
UC227	3.44	1146.33	5.00	0.5000	5yr-Historical_Chicago_24h	MH_27
UC228	1.69	564.60	5.00	0.5000	5yr-Historical_Chicago_24h	MH_14

UC229	0.02	7.54	55.00	0.5000	5yr-Historical_Chicago_24h MJ64
UC23	0.33	111.21	55.00	0.5000	5yr-Historical_Chicago_24h MJ86
UC24	0.34	114.53	55.00	0.5000	5yr-Historical_Chicago_24h MJ80
UC25	0.31	104.28	55.00	0.5000	5yr-Historical_Chicago_24h MJ65
UC26	0.18	58.99	55.00	0.5000	5yr-Historical_Chicago_24h MJ76
UC27	0.15	50.82	55.00	0.5000	5yr-Historical_Chicago_24h MJ86
UC28	0.22	72.77	55.00	0.5000	5yr-Historical_Chicago_24h MJ69
UC29	0.26	85.34	55.00	0.5000	5yr-Historical_Chicago_24h MJ69
UC3	0.16	54.62	55.00	0.5000	5yr-Historical_Chicago_24h MJ102
UC30	0.05	17.37	20.00	0.5000	5yr-Historical_Chicago_24h MJ66
UC300	1.52	505.83	55.00	0.5000	5yr-Historical_Chicago_24h OF28-
UC301	4.36	1453.53	55.00	0.5000	5yr-Historical_Chicago_24h OF23-
UC302	0.47	158.17	55.00	0.5000	5yr-Historical_Chicago_24h OF26-M
UC303	0.55	184.73	55.00	0.5000	5yr-Historical_Chicago_24h OF27-1
UC304	2.14	712.20	55.00	0.5000	5yr-Historical_Chicago_24h OF21-
UC305	2.14	714.30	55.00	0.5000	5yr-Historical_Chicago_24h OF10-
UC306	0.69	229.93	5.00	0.5000	5yr-Historical_Chicago_24h J1
UC307	0.50	165.17	55.00	0.5000	5yr-Historical_Chicago_24h OF27-1
UC308	2.74	245.84	55.00	0.5000	5yr-Historical_Chicago_24h MJ12
UC309	0.46	154.37	55.00	0.5000	5yr-Historical_Chicago_24h OF17-
UC31	0.33	111.10	20.00	0.5000	5yr-Historical_Chicago_24h MJ55
UC310	0.71	238.23	55.00	0.5000	5yr-Historical_Chicago_24h OF19-
UC311	4.49	1495.23	55.00	0.5000	5yr-Historical_Chicago_24h OF15-
UC312	1.66	554.30	55.00	0.5000	5yr-Historical_Chicago_24h OF15-
UC313	7.10	2367.87	35.00	0.5000	5yr-Historical_Chicago_24h CBMH_1
UC314	0.23	77.97	55.00	0.5000	5yr-Historical_Chicago_24h OF18-M
UC315	0.94	313.53	55.00	0.5000	5yr-Historical_Chicago_24h OF5-M
UC316	0.64	214.80	55.00	0.5000	5yr-Historical_Chicago_24h OF5-M
UC317	0.59	197.20	55.00	0.5000	5yr-Historical_Chicago_24h OF4-M
UC318	0.63	210.60	20.00	0.5000	5yr-Historical_Chicago_24h OF3-
UC319	2.35	781.77	55.00	0.5000	5yr-Historical_Chicago_24h OF27-M
UC32	0.12	38.49	20.00	0.5000	5yr-Historical_Chicago_24h MJ48
UC33	0.80	266.66	20.00	0.5000	5yr-Historical_Chicago_24h MJ48
UC34	0.62	205.09	20.00	0.5000	5yr-Historical_Chicago_24h MJ55
UC35	0.06	18.45	55.00	0.5000	5yr-Historical_Chicago_24h MJ69
UC36	0.05	16.27	55.00	0.5000	5yr-Historical_Chicago_24h MJ60
UC37	0.10	32.31	20.00	0.5000	5yr-Historical_Chicago_24h MJ55
UC38	0.41	137.29	20.00	0.5000	5yr-Historical_Chicago_24h MJ37
UC39	0.14	47.24	55.00	0.5000	5yr-Historical_Chicago_24h MJ51
UC4	0.40	133.14	55.00	0.5000	5yr-Historical_Chicago_24h MJ102
UC40	0.09	30.17	55.00	0.5000	5yr-Historical_Chicago_24h MJ61

UC41	0.05	15.78	55.00	0.5000	5yr-Historical_Chicago_24h	MJ73
UC42	0.09	30.13	55.00	0.5000	5yr-Historical_Chicago_24h	MJ73
UC43	0.07	24.64	55.00	0.5000	5yr-Historical_Chicago_24h	MJ83
UC44	0.06	21.00	55.00	0.5000	5yr-Historical_Chicago_24h	MJ83
UC45	0.17	56.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ89
UC46	0.13	42.55	55.00	0.5000	5yr-Historical_Chicago_24h	MJ108
UC47	0.15	49.57	55.00	0.5000	5yr-Historical_Chicago_24h	MJ118
UC48	0.19	63.36	55.00	0.5000	5yr-Historical_Chicago_24h	MJ118
UC49	0.42	138.36	55.00	0.5000	5yr-Historical_Chicago_24h	CB20
UC5	0.51	169.28	55.00	0.5000	5yr-Historical_Chicago_24h	MJ103
UC50	0.29	95.42	55.00	0.5000	5yr-Historical_Chicago_24h	CB19
UC51	0.63	211.64	55.00	0.5000	5yr-Historical_Chicago_24h	MJ115
UC52	0.57	189.36	55.00	0.5000	5yr-Historical_Chicago_24h	MJ131
UC53	0.79	264.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ105
UC54	0.77	256.33	55.00	0.5000	5yr-Historical_Chicago_24h	MJ93
UC55	0.70	233.10	55.00	0.5000	5yr-Historical_Chicago_24h	MJ87
UC56	0.41	135.07	55.00	0.5000	5yr-Historical_Chicago_24h	MJ82
UC57	0.35	117.21	55.00	0.5000	5yr-Historical_Chicago_24h	MJ72
UC58	0.29	97.61	55.00	0.5000	5yr-Historical_Chicago_24h	MJ64
UC59	0.23	76.57	55.00	0.5000	5yr-Historical_Chicago_24h	MJ61
UC6	0.22	71.89	55.00	0.5000	5yr-Historical_Chicago_24h	MJ102
UC60	0.16	52.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ61
UC61	0.36	120.37	20.00	0.5000	5yr-Historical_Chicago_24h	MJ35
UC62	0.69	228.71	55.00	0.5000	5yr-Historical_Chicago_24h	MJ26
UC63	0.08	26.32	55.00	0.5000	5yr-Historical_Chicago_24h	MJ18
UC64	0.05	15.69	55.00	0.5000	5yr-Historical_Chicago_24h	MJ53
UC65	0.14	47.86	55.00	0.5000	5yr-Historical_Chicago_24h	MJ72
UC66	0.07	23.20	55.00	0.5000	5yr-Historical_Chicago_24h	MJ79
UC67	0.00	1.18	55.00	0.5000	5yr-Historical_Chicago_24h	MJ79
UC68	0.24	78.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ74
UC69	0.04	11.73	55.00	0.5000	5yr-Historical_Chicago_24h	MJ78
UC7	0.30	99.82	55.00	0.5000	5yr-Historical_Chicago_24h	MJ113
UC70	0.05	18.24	55.00	0.5000	5yr-Historical_Chicago_24h	MJ75
UC71	0.84	220.45	55.00	0.5000	5yr-Historical_Chicago_24h	Rice_Pond
UC72	0.06	18.71	55.00	0.5000	5yr-Historical_Chicago_24h	MJ81
UC73	0.36	121.41	55.00	0.5000	5yr-Historical_Chicago_24h	MJ90
UC74	15.94	4116.06	5.00	0.5000	5yr-Historical_Chicago_24h	OF24-
UC75	0.21	69.77	55.00	0.5000	5yr-Historical_Chicago_24h	MJ93
UC76	0.32	105.90	55.00	0.5000	5yr-Historical_Chicago_24h	MJ81
UC77	0.27	89.05	55.00	0.5000	5yr-Historical_Chicago_24h	MJ59
UC78	0.39	130.61	55.00	0.5000	5yr-Historical_Chicago_24h	MJ42

UC79	0.06	18.52	55.00	0.5000	5yr-Historical_Chicago_24h	MJ117
UC8	0.45	148.58	55.00	0.5000	5yr-Historical_Chicago_24h	MJ120
UC80	0.03	9.53	55.00	0.5000	5yr-Historical_Chicago_24h	MJ64
UC81	0.25	81.93	55.00	0.5000	5yr-Historical_Chicago_24h	MJ115
UC82	0.45	151.11	55.00	0.5000	5yr-Historical_Chicago_24h	MJ90
UC83	0.19	61.70	55.00	0.5000	5yr-Historical_Chicago_24h	OF5-M
UC84	1.13	376.24	20.00	0.5000	5yr-Historical_Chicago_24h	MJ9
UC85	0.42	138.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ74
UC86	0.33	109.61	55.00	0.5000	5yr-Historical_Chicago_24h	MJ59
UC87	0.15	48.47	55.00	0.5000	5yr-Historical_Chicago_24h	MJ56
UC88	0.16	53.96	55.00	0.5000	5yr-Historical_Chicago_24h	MJ52
UC89	0.36	119.67	55.00	0.5000	5yr-Historical_Chicago_24h	MJ52
UC9	0.47	158.00	55.00	0.5000	5yr-Historical_Chicago_24h	MJ127
UC90	0.14	47.36	55.00	0.5000	5yr-Historical_Chicago_24h	MJ58
UC91	0.04	14.63	55.00	0.5000	5yr-Historical_Chicago_24h	MJ47
UC92	0.08	27.04	55.00	0.5000	5yr-Historical_Chicago_24h	MJ47
UC93	0.21	69.53	55.00	0.5000	5yr-Historical_Chicago_24h	MJ38
UC94	0.17	55.62	55.00	0.5000	5yr-Historical_Chicago_24h	MJ38
UC95	0.10	31.80	55.00	0.5000	5yr-Historical_Chicago_24h	MJ46
UC96	0.23	75.23	55.00	0.5000	5yr-Historical_Chicago_24h	MJ29
UC97	0.14	46.20	55.00	0.5000	5yr-Historical_Chicago_24h	MJ29
UC98	0.22	73.89	55.00	0.5000	5yr-Historical_Chicago_24h	MJ47
UC99	0.33	111.47	55.00	0.5000	5yr-Historical_Chicago_24h	MJ17

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
CB15	JUNCTION	181.70	1.40	0.0	
CB16	JUNCTION	181.95	1.58	0.0	
CB17	JUNCTION	180.27	2.86	0.0	
CB18	JUNCTION	181.40	1.68	0.0	
CB19	JUNCTION	181.60	1.50	0.0	
CB20	JUNCTION	181.34	1.76	0.0	
CB21	JUNCTION	180.51	2.49	0.0	
CB22	JUNCTION	181.20	2.30	0.0	
CB23	JUNCTION	181.45	1.85	0.0	
CB26	JUNCTION	179.34	3.28	0.0	

CB27	JUNCTION	182.57	1.72	0.0
CB29	JUNCTION	185.26	0.85	0.0
CB30	JUNCTION	185.15	0.91	0.0
CB30_1	JUNCTION	183.93	1.57	0.0
CB31	JUNCTION	183.49	1.13	0.0
CB32	JUNCTION	183.42	1.22	0.0
CB33	JUNCTION	183.34	1.39	0.0
CB34	JUNCTION	184.40	0.74	0.0
CB35	JUNCTION	184.20	0.95	0.0
CB41	JUNCTION	181.77	0.85	0.0
CB42	JUNCTION	181.15	1.50	0.0
CB-58	JUNCTION	180.43	2.10	0.0
CBMH_1	JUNCTION	181.53	1.47	0.0
CBMH_40	JUNCTION	182.75	2.25	0.0
CBMH_41	JUNCTION	182.52	1.98	0.0
CBMH_42	JUNCTION	182.82	1.68	0.0
CBMH_44	JUNCTION	182.43	1.87	0.0
CBMH_46	JUNCTION	182.00	2.03	0.0
CBMH_62	JUNCTION	182.63	1.56	0.0
CBMH1	JUNCTION	182.55	1.45	0.0
CBMH1_ON	JUNCTION	184.86	1.26	0.0
CBMH10_Main	JUNCTION	179.41	2.02	0.0
CBMH2	JUNCTION	180.73	3.49	0.0
CBMH2_ON	JUNCTION	184.54	2.00	0.0
CBMH3_ON	JUNCTION	184.25	2.33	0.0
CBMH4_ON	JUNCTION	183.99	2.41	0.0
CBMH5	JUNCTION	179.80	2.75	0.0
CBMH5_ON	JUNCTION	184.05	2.30	0.0
CBMH6_ON	JUNCTION	183.89	2.26	0.0
CBMH7	JUNCTION	182.38	1.87	0.0
CBMH7_ON	JUNCTION	183.71	1.58	0.0
CBMH8_ON	JUNCTION	183.26	1.51	0.0
CBMH9_ON	JUNCTION	182.74	1.61	0.0
DCB72	JUNCTION	180.43	1.45	0.0
DICBMH42	JUNCTION	176.65	2.45	0.0
J1	JUNCTION	183.00	2.00	0.0
J101	JUNCTION	180.77	1.30	0.0
J102	JUNCTION	180.30	1.74	0.0
J105	JUNCTION	183.98	1.52	0.0
J106	JUNCTION	183.62	1.13	0.0
J110	JUNCTION	180.82	1.39	0.0

J113	JUNCTION	180.92	1.25	0.0
J115	JUNCTION	183.07	1.93	0.0
J116	JUNCTION	176.45	1.41	0.0
J12	JUNCTION	183.32	3.08	0.0
J125	JUNCTION	178.39	4.50	0.0
J127	JUNCTION	180.71	2.36	0.0
J128	JUNCTION	180.92	2.45	0.0
J15	JUNCTION	180.71	3.09	0.0
J2	JUNCTION	182.87	2.00	0.0
J20	JUNCTION	179.51	3.24	0.0
J24	JUNCTION	177.76	4.94	0.0
J3	JUNCTION	181.58	2.00	0.0
J30	JUNCTION	186.43	2.77	0.0
J31	JUNCTION	185.91	3.09	0.0
J34	JUNCTION	181.75	1.62	0.0
J35	JUNCTION	181.98	1.23	0.0
J36	JUNCTION	179.96	3.79	0.0
J38	JUNCTION	180.00	3.26	0.0
J4	JUNCTION	185.20	2.55	0.0
J42	JUNCTION	179.01	3.19	0.0
J43	JUNCTION	178.80	3.55	0.0
J47	JUNCTION	179.99	2.53	0.0
J48	JUNCTION	180.60	3.90	0.0
J49	JUNCTION	180.92	2.12	0.0
J5	JUNCTION	184.85	3.65	0.0
J50	JUNCTION	178.47	4.13	0.0
J52	JUNCTION	178.68	3.32	0.0
J55	JUNCTION	178.50	3.72	0.0
J6	JUNCTION	181.23	2.00	0.0
J62	JUNCTION	178.38	4.00	0.0
J66	JUNCTION	176.80	1.21	0.0
J67	JUNCTION	176.71	1.02	0.0
J7	JUNCTION	182.39	2.00	0.0
J70	JUNCTION	175.92	1.45	0.0
J78	JUNCTION	0.00	0.30	0.0
J8	JUNCTION	184.40	1.77	0.0
J83	JUNCTION	0.00	0.30	0.0
J91	JUNCTION	178.37	4.55	0.0
J93	JUNCTION	182.16	0.74	0.0
J95	JUNCTION	182.38	0.64	0.0
J98	JUNCTION	181.18	0.86	0.0

MH_1	JUNCTION	181.24	2.76	0.0
MH_11	JUNCTION	183.13	3.33	0.0
MH_14	JUNCTION	183.75	2.84	0.0
MH_15	JUNCTION	182.74	3.11	0.0
MH_16	JUNCTION	182.59	3.03	0.0
MH_17	JUNCTION	182.15	2.72	0.0
MH_2	JUNCTION	180.60	1.90	0.0
MH_27	JUNCTION	183.07	2.54	0.0
MH_29	JUNCTION	183.90	1.74	0.0
MH_30	JUNCTION	183.08	2.19	0.0
MH_34	JUNCTION	183.13	2.94	0.0
MH_35	JUNCTION	182.73	2.96	0.0
MH_36	JUNCTION	182.63	2.91	0.0
MH_37	JUNCTION	182.25	2.93	0.0
MH_38	JUNCTION	182.02	2.87	0.0
MH_39	JUNCTION	181.68	2.80	0.0
MH_43	JUNCTION	182.56	1.74	0.0
MH_45	JUNCTION	182.14	1.89	0.0
MH_47	JUNCTION	181.56	2.77	0.0
MH_56	JUNCTION	183.17	0.83	0.0
MH_57	JUNCTION	182.84	1.26	0.0
MH_58	JUNCTION	182.68	1.46	0.0
MH_59	JUNCTION	183.44	1.06	0.0
MH_61	JUNCTION	183.17	1.33	0.0
MH_63	JUNCTION	182.46	1.79	0.0
MH_64	JUNCTION	182.20	2.23	0.0
MH_65	JUNCTION	181.87	2.45	0.0
MH_66	JUNCTION	181.81	2.42	0.0
MH_67	JUNCTION	181.33	2.72	0.0
MH_68	JUNCTION	181.12	2.23	0.0
MH_69	JUNCTION	180.26	3.94	0.0
MH_70	JUNCTION	179.67	2.41	0.0
MH1	JUNCTION	181.11	2.89	0.0
MH1_Main	JUNCTION	183.85	1.77	0.0
MH10	JUNCTION	179.50	3.65	0.0
MH10__S	JUNCTION	183.15	2.00	0.0
MH10_Main	JUNCTION	176.78	2.27	0.0
MH11	JUNCTION	179.30	3.47	0.0
MH11__S	JUNCTION	182.77	2.00	0.0
MH11_Main	JUNCTION	176.34	2.32	0.0
MH12	JUNCTION	181.20	1.87	0.0

MH13	JUNCTION	178.80	4.45	0.0
MH13_Main	JUNCTION	181.26	1.68	0.0
MH13_Main_	JUNCTION	180.75	1.93	0.0
MH14	JUNCTION	178.35	5.60	0.0
MH14_Main	JUNCTION	180.55	2.15	0.0
MH15	JUNCTION	178.20	5.71	0.0
MH15_Main	JUNCTION	180.49	2.55	0.0
MH16	JUNCTION	178.00	5.20	0.0
MH2	JUNCTION	181.00	2.95	0.0
MH2_Main	JUNCTION	183.35	1.52	0.0
MH2_S	JUNCTION	183.95	2.00	0.0
MH21	JUNCTION	181.12	1.98	0.0
MH21_S	JUNCTION	182.80	2.00	0.0
MH22	JUNCTION	180.69	2.21	0.0
MH23	JUNCTION	180.76	2.04	0.0
MH24	JUNCTION	180.59	2.18	0.0
MH25	JUNCTION	180.10	2.85	0.0
MH25-1	JUNCTION	180.26	2.69	0.0
MH26	JUNCTION	179.76	3.09	0.0
MH3	JUNCTION	180.92	3.19	0.0
MH3_Main	JUNCTION	182.82	2.67	0.0
MH3_S	JUNCTION	184.11	2.00	0.0
MH30	JUNCTION	179.43	2.82	0.0
MH31	JUNCTION	179.33	3.10	0.0
MH32	JUNCTION	179.21	2.82	0.0
MH33	JUNCTION	179.13	2.90	0.0
MH34	JUNCTION	179.06	2.06	0.0
MH34_S	JUNCTION	181.48	2.00	0.0
MH35	JUNCTION	178.95	2.88	0.0
MH36	JUNCTION	178.83	3.13	0.0
MH36_S	JUNCTION	181.97	2.00	0.0
MH37	JUNCTION	179.80	2.54	0.0
MH37_S	JUNCTION	182.34	2.00	0.0
MH38	JUNCTION	179.55	2.72	0.0
MH39	JUNCTION	179.41	2.76	0.0
MH4	JUNCTION	180.70	3.46	0.0
MH4_Main	JUNCTION	181.66	2.60	0.0
MH40	JUNCTION	178.83	3.25	0.0
MH41	JUNCTION	178.68	3.18	0.0
MH41_S	JUNCTION	181.86	2.00	0.0
MH42	JUNCTION	177.44	2.00	0.0

MH43	JUNCTION	177.28	4.82	0.0
MH5	JUNCTION	182.45	2.55	0.0
MH5_Main	JUNCTION	180.75	2.08	0.0
MH6	JUNCTION	182.32	2.68	0.0
MH6_Main	JUNCTION	180.24	3.03	0.0
MH7	JUNCTION	182.10	1.90	0.0
MH7_Main	JUNCTION	180.25	1.77	0.0
MH8	JUNCTION	180.51	3.45	0.0
MH8_Main	JUNCTION	177.56	1.91	0.0
MH8_S	JUNCTION	183.96	2.00	0.0
MH9	JUNCTION	180.27	3.46	0.0
MH9__S	JUNCTION	183.22	2.00	0.0
MH9_Main	JUNCTION	177.61	1.93	0.0
MJ_	JUNCTION	182.63	2.00	0.0
MJ1	JUNCTION	177.47	2.00	0.0
MJ10	JUNCTION	183.50	2.00	0.0
MJ100	JUNCTION	182.26	2.00	0.0
MJ101	JUNCTION	183.69	2.00	0.0
MJ102	JUNCTION	182.86	2.00	0.0
MJ103	JUNCTION	183.01	2.00	0.0
MJ104	JUNCTION	184.20	2.00	0.0
MJ105	JUNCTION	184.47	2.00	0.0
MJ106	JUNCTION	183.57	2.00	0.0
MJ107	JUNCTION	184.16	2.00	0.0
MJ108	JUNCTION	185.68	2.00	0.0
MJ109	JUNCTION	184.90	2.00	0.0
MJ11	JUNCTION	178.72	2.00	0.0
MJ110	JUNCTION	182.03	2.00	0.0
MJ111	JUNCTION	182.56	2.00	0.0
MJ112	JUNCTION	180.63	2.00	0.0
MJ113	JUNCTION	184.24	2.00	0.0
MJ114	JUNCTION	184.53	2.00	0.0
MJ115	JUNCTION	185.42	2.00	0.0
MJ116	JUNCTION	181.97	2.00	0.0
MJ117	JUNCTION	185.54	2.00	0.0
MJ118	JUNCTION	184.71	2.00	0.0
MJ119	JUNCTION	180.21	2.00	0.0
MJ12	JUNCTION	179.00	2.00	0.0
MJ120	JUNCTION	183.93	2.00	0.0
MJ121	JUNCTION	186.66	2.00	0.0
MJ122	JUNCTION	184.25	2.00	0.0

MJ123	JUNCTION	187.14	2.00	0.0
MJ124	JUNCTION	180.38	2.00	0.0
MJ125	JUNCTION	186.11	2.00	0.0
MJ126	JUNCTION	185.15	2.03	0.0
MJ127	JUNCTION	185.86	2.00	0.0
MJ128	JUNCTION	182.09	2.00	0.0
MJ129	JUNCTION	181.77	2.00	0.0
MJ13	JUNCTION	178.60	2.00	0.0
MJ130	JUNCTION	186.07	2.00	0.0
MJ131	JUNCTION	184.25	2.00	0.0
MJ132	JUNCTION	181.74	2.00	0.0
MJ133	JUNCTION	186.56	2.00	0.0
MJ134	JUNCTION	181.39	2.00	0.0
MJ135	JUNCTION	183.25	2.00	0.0
MJ136	JUNCTION	183.36	2.00	0.0
MJ137	JUNCTION	182.43	2.00	0.0
MJ138	JUNCTION	187.83	2.00	0.0
MJ139	JUNCTION	181.93	2.00	0.0
MJ14	JUNCTION	181.49	2.00	0.0
MJ140	JUNCTION	182.17	2.00	0.0
MJ142	JUNCTION	182.62	2.00	0.0
MJ143	JUNCTION	184.16	2.00	0.0
MJ144	JUNCTION	182.85	2.00	0.0
MJ145	JUNCTION	182.53	2.00	0.0
MJ146	JUNCTION	182.36	2.00	0.0
MJ147	JUNCTION	183.01	2.00	0.0
MJ148	JUNCTION	183.01	2.00	0.0
MJ149	JUNCTION	184.00	2.00	0.0
MJ15	JUNCTION	188.53	2.00	0.0
MJ150	JUNCTION	184.44	2.00	0.0
MJ151	JUNCTION	183.38	2.00	0.0
MJ152	JUNCTION	183.70	2.00	0.0
MJ153	JUNCTION	184.32	1.56	0.0
MJ154	JUNCTION	184.48	1.98	0.0
MJ155	JUNCTION	185.18	2.00	0.0
MJ156	JUNCTION	185.85	2.00	0.0
MJ157	JUNCTION	186.21	2.00	0.0
MJ158	JUNCTION	183.48	2.00	0.0
MJ16	JUNCTION	178.64	2.00	0.0
MJ17	JUNCTION	181.83	2.00	0.0
MJ18	JUNCTION	183.36	2.00	0.0

MJ19	JUNCTION	180.99	2.00	0.0
MJ2	JUNCTION	177.75	2.00	0.0
MJ20	JUNCTION	183.28	2.00	0.0
MJ21	JUNCTION	178.93	2.00	0.0
MJ22	JUNCTION	186.16	2.00	0.0
MJ23	JUNCTION	179.26	2.00	0.0
MJ24	JUNCTION	181.81	2.00	0.0
MJ25	JUNCTION	183.46	2.00	0.0
MJ26	JUNCTION	182.88	2.00	0.0
MJ27	JUNCTION	179.82	2.00	0.0
MJ28	JUNCTION	183.09	2.00	0.0
MJ29	JUNCTION	181.04	2.00	0.0
MJ3	JUNCTION	177.39	2.00	0.0
MJ30	JUNCTION	181.35	2.00	0.0
MJ31	JUNCTION	181.07	2.00	0.0
MJ32	JUNCTION	181.94	2.00	0.0
MJ33	JUNCTION	181.69	2.00	0.0
MJ34	JUNCTION	179.69	2.00	0.0
MJ35	JUNCTION	180.16	2.00	0.0
MJ36	JUNCTION	182.67	2.00	0.0
MJ37	JUNCTION	178.64	2.00	0.0
MJ38	JUNCTION	181.67	2.00	0.0
MJ39	JUNCTION	183.95	2.00	0.0
MJ4	JUNCTION	179.70	2.00	0.0
MJ40	JUNCTION	182.92	2.00	0.0
MJ41	JUNCTION	183.49	2.00	0.0
MJ42	JUNCTION	180.66	2.00	0.0
MJ43	JUNCTION	186.65	2.00	0.0
MJ44	JUNCTION	183.40	2.00	0.0
MJ45	JUNCTION	184.79	2.00	0.0
MJ46	JUNCTION	181.56	2.00	0.0
MJ47	JUNCTION	182.83	2.00	0.0
MJ48	JUNCTION	176.45	2.00	0.0
MJ49	JUNCTION	182.90	2.00	0.0
MJ5	JUNCTION	183.63	2.00	0.0
MJ50	JUNCTION	182.60	2.00	0.0
MJ51	JUNCTION	181.03	2.00	0.0
MJ52	JUNCTION	182.59	2.00	0.0
MJ53	JUNCTION	182.25	2.00	0.0
MJ54	JUNCTION	182.45	2.00	0.0
MJ55	JUNCTION	178.53	2.00	0.0

MJ56	JUNCTION	182.92	2.00	0.0
MJ57	JUNCTION	178.83	2.00	0.0
MJ58	JUNCTION	182.42	2.00	0.0
MJ59	JUNCTION	181.95	2.00	0.0
MJ60	JUNCTION	180.01	2.00	0.0
MJ61	JUNCTION	180.74	2.00	0.0
MJ62	JUNCTION	183.87	2.00	0.0
MJ63	JUNCTION	182.23	2.00	0.0
MJ64	JUNCTION	182.17	2.00	0.0
MJ65	JUNCTION	182.48	2.00	0.0
MJ66	JUNCTION	180.29	2.00	0.0
MJ67	JUNCTION	185.99	2.00	0.0
MJ68	JUNCTION	184.22	2.00	0.0
MJ69	JUNCTION	182.30	2.00	0.0
MJ7	JUNCTION	186.59	2.00	0.0
MJ70	JUNCTION	183.26	2.00	0.0
MJ71	JUNCTION	179.00	2.00	0.0
MJ72	JUNCTION	182.44	2.00	0.0
MJ73	JUNCTION	182.35	2.00	0.0
MJ74	JUNCTION	182.65	2.00	0.0
MJ75	JUNCTION	182.97	2.00	0.0
MJ76	JUNCTION	183.74	2.00	0.0
MJ77	JUNCTION	182.36	2.00	0.0
MJ78	JUNCTION	183.13	2.00	0.0
MJ79	JUNCTION	182.65	2.02	0.0
MJ8	JUNCTION	189.00	2.00	0.0
MJ80	JUNCTION	182.72	2.00	0.0
MJ81	JUNCTION	183.15	2.00	0.0
MJ82	JUNCTION	182.69	2.00	0.0
MJ83	JUNCTION	182.48	2.00	0.0
MJ84	JUNCTION	185.65	2.00	0.0
MJ85	JUNCTION	183.89	2.00	0.0
MJ86	JUNCTION	184.35	2.00	0.0
MJ87	JUNCTION	183.32	2.00	0.0
MJ88	JUNCTION	183.05	2.00	0.0
MJ89	JUNCTION	182.76	2.00	0.0
MJ9	JUNCTION	178.63	2.00	0.0
MJ90	JUNCTION	181.67	2.00	0.0
MJ91	JUNCTION	184.14	2.00	0.0
MJ92	JUNCTION	185.97	2.00	0.0
MJ93	JUNCTION	184.97	2.00	0.0

MJ94	JUNCTION	184.52	2.00	0.0
MJ95	JUNCTION	181.16	2.00	0.0
MJ96	JUNCTION	182.91	2.00	0.0
MJ97	JUNCTION	182.44	2.00	0.0
MJ98	JUNCTION	183.37	2.00	0.0
MJ99	JUNCTION	185.38	2.00	0.0
OGS-	JUNCTION	180.49	1.51	0.0
RICE_POND_OUTLET	JUNCTION	180.82	1.22	0.0
OF10-	OUTFALL	0.00	0.00	0.0
OF11-M	OUTFALL	183.10	1.10	0.0
OF12-	OUTFALL	179.15	0.68	0.0
OF13-	OUTFALL	180.31	0.45	0.0
OF14-	OUTFALL	179.55	0.53	0.0
OF15-	OUTFALL	177.00	0.00	0.0
OF16-	OUTFALL	177.00	0.45	0.0
OF17-	OUTFALL	177.80	0.75	0.0
OF18-M	OUTFALL	179.15	0.00	0.0
OF19-	OUTFALL	178.15	0.82	0.0
OF1-M	OUTFALL	175.00	1.00	0.0
OF20-	OUTFALL	179.15	0.45	0.0
OF21-	OUTFALL	179.15	0.00	0.0
OF22_M	OUTFALL	181.25	1.10	0.0
OF23-	OUTFALL	0.00	0.00	0.0
OF24-	OUTFALL	177.26	0.60	0.0
OF25-	OUTFALL	177.59	0.25	0.0
OF26-M	OUTFALL	178.53	1.10	0.0
OF27-1	OUTFALL	177.18	0.82	0.0
OF27-M	OUTFALL	178.86	0.50	0.0
OF28-	OUTFALL	0.00	0.00	0.0
OF29-	OUTFALL	178.63	0.30	0.0
OF2-M	OUTFALL	177.10	1.10	0.0
OF2-M-	OUTFALL	177.10	1.10	0.0
OF3-	OUTFALL	176.00	0.45	0.0
OF30-M	OUTFALL	179.83	0.48	0.0
OF31-M	OUTFALL	181.38	1.10	0.0
OF32-M	OUTFALL	184.92	1.10	0.0
OF33-	OUTFALL	177.03	0.82	0.0
OF34-	OUTFALL	0.00	0.00	0.0
OF35-	OUTFALL	0.00	0.00	0.0
OF36-	OUTFALL	0.00	0.00	0.0
OF37-	OUTFALL	0.00	0.00	0.0

OF38-	OUTFALL	0.00	0.00	0.0
OF39-	OUTFALL	0.00	0.00	0.0
OF3-M	OUTFALL	177.73	0.48	0.0
OF40-	OUTFALL	0.00	0.00	0.0
OF41-	OUTFALL	0.00	0.00	0.0
OF42-	OUTFALL	0.00	0.00	0.0
OF43-	OUTFALL	0.00	0.00	0.0
OF44-	OUTFALL	0.00	0.00	0.0
OF45-	OUTFALL	0.00	0.00	0.0
OF46-	OUTFALL	0.00	0.00	0.0
OF47-	OUTFALL	0.00	0.00	0.0
OF48-	OUTFALL	0.00	0.00	0.0
OF49-	OUTFALL	0.00	0.00	0.0
OF4-M	OUTFALL	175.62	1.10	0.0
OF50	OUTFALL	0.00	0.00	0.0
OF51	OUTFALL	0.00	0.00	0.0
OF52	OUTFALL	0.00	0.00	0.0
OF53	OUTFALL	0.00	0.00	0.0
OF54	OUTFALL	0.00	0.00	0.0
OF55	OUTFALL	0.00	0.00	0.0
OF56	OUTFALL	0.00	0.00	0.0
OF57	OUTFALL	0.00	0.00	0.0
OF58	OUTFALL	0.00	0.00	0.0
OF59	OUTFALL	0.00	0.00	0.0
OF5-M	OUTFALL	182.86	1.10	0.0
OF6-	OUTFALL	175.50	0.38	0.0
OF60	OUTFALL	0.00	0.00	0.0
OF61	OUTFALL	0.00	0.00	0.0
OF62	OUTFALL	0.00	0.00	0.0
OF7-M	OUTFALL	177.13	1.10	0.0
OF8-	OUTFALL	176.00	0.15	0.0
OF9-M	OUTFALL	179.04	0.48	0.0
Gill_RD_Pond	STORAGE	176.65	2.85	0.0
Rice_Pond	STORAGE	179.25	4.75	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness

C_dummy	MJ48	OF1-M	CONDUIT	7.2	20.4772	0.0100
C1	J24	OF33-	CONDUIT	89.0	0.8236	0.0130
C100	MH_39	MH_47	CONDUIT	24.9	0.2366	0.0130
C106	MH_37	MH_38	CONDUIT	44.0	0.5205	0.0130
C108	CBMH_40	CBMH_41	CONDUIT	54.3	0.3717	0.0130
C110	CBMH_41	MH_45	CONDUIT	16.0	0.6109	0.0130
C111	CBMH_44	MH_45	CONDUIT	24.6	0.8692	0.0130
C113	MH_43	CBMH_44	CONDUIT	23.6	0.3733	0.0130
C114	CBMH_42	MH_43	CONDUIT	10.9	0.6398	0.0130
C115	J115	CBMH_42	CONDUIT	60.3	0.3733	0.0130
C116	MH_45	CBMH_46	CONDUIT	20.1	0.5367	0.0130
C118	CBMH_46	MH_47	CONDUIT	15.5	1.0454	0.0130
C119_1	CBMH_46	MH_47	CONDUIT	15.5	0.7550	0.0130
C119_2	MH_47	MH_67	CONDUIT	70.5	0.2921	0.0130
C123	MH_66	MH_67	CONDUIT	29.6	0.3513	0.0130
C124	MH_65	MH_66	CONDUIT	13.3	0.1802	0.0130
C125	MH_67	MH_68	CONDUIT	20.9	0.6846	0.0130
C126	MH_68	Rice_Pond	CONDUIT	6.4	0.3569	0.0130
C127	RICE_POND_OUTLET	MH_69	CONDUIT	56.2	0.8861	0.0130
C128	MH_69	MH_70	CONDUIT	68.2	0.7859	0.0130
C129	MH_70	OF14-	CONDUIT	15.0	0.8000	0.0130
C130	MH_64	MH_65	CONDUIT	81.8	0.3336	0.0130
C145	MH_56	MH_57	CONDUIT	60.6	0.4452	0.0130
C147	MH_57	MH_58	CONDUIT	13.0	0.6923	0.0130
C150	MH_58	MH_63	CONDUIT	18.3	0.5188	0.0130
C151	CBMH_62	MH_63	CONDUIT	16.2	0.5695	0.0130
C156	MH_61	CBMH_62	CONDUIT	90.9	0.5733	0.0130
C159	MH_59	MH_61	CONDUIT	34.7	0.6925	0.0130
C160	J106	MH_59	CONDUIT	30.5	0.4918	0.0130
C161	J105	J106	CONDUIT	66.0	0.5000	0.0130
C164	CBMH5	OF16-	CONDUIT	45.6	6.1581	0.0130
C165	J38	CBMH5	CONDUIT	22.7	0.8824	0.0130
C167	MH40	MH41	CONDUIT	49.1	0.3078	0.0130
C185	MH30	MH31	CONDUIT	37.4	0.1870	0.0130
C186	MH31	MH32	CONDUIT	50.8	0.2028	0.0130
C187	MH32	MH33	CONDUIT	15.1	0.2514	0.0130
C188	MH33	MH40	CONDUIT	109.6	0.2518	0.0130
C189	DCB72	MH37	CONDUIT	32.5	1.5263	0.0130
C190	MH37	MH38	CONDUIT	61.1	0.3337	0.0130
C193	MH38	MH39	CONDUIT	17.3	0.3808	0.0130
C194	MH39	MH40	CONDUIT	118.9	0.3961	0.0130

C2	MH_38	MH_39	CONDUIT	70.0	0.3500	0.0130
C200-	MH8	MH9	CONDUIT	36.4	0.6039	0.0130
C205	MH34	MH35	CONDUIT	23.5	0.2973	0.0130
C206	MH35	MH36	CONDUIT	24.6	0.2316	0.0130
C207	MH36	MH41	CONDUIT	28.7	0.2716	0.0130
C211	DICBMH42	MH42	CONDUIT	6.5	-12.8118	0.0130
C212	MH42	MH43	CONDUIT	68.8	0.1904	0.0130
C213	MH43	OF27-1	CONDUIT	52.8	0.1894	0.0130
C228	MH15_Main	MH6_Main	CONDUIT	16.9	1.4799	0.0130
C229	CB29	CB30	CONDUIT	6.2	1.7808	0.0130
C230	CB30_1	MH1_Main	CONDUIT	4.4	1.8111	0.0130
C231	CB33	MH2_Main	CONDUIT	2.5	-0.4040	0.0130
C232	CB31	CB32	CONDUIT	7.2	0.9773	0.0130
C233	CB32	MH2_Main	CONDUIT	12.5	0.5619	0.0130
C234	CB34	CB35	CONDUIT	6.7	1.4976	0.0130
C235	CB35	MH3_Main	CONDUIT	15.4	1.9516	0.0130
C239	CB42	MH5_Main	CONDUIT	15.1	1.3216	0.0130
C240	CB41	CB42	CONDUIT	6.9	2.8989	0.0130
C244	J49	MH15_Main	CONDUIT	6.0	2.1828	0.0130
C245	CB27	J48	CONDUIT	19.7	0.3548	0.0130
C246	J48	CBMH2	CONDUIT	23.9	2.5536	0.0130
C248	MH15	MH16	CONDUIT	44.7	0.4030	0.0130
C250	CB22	MH13	CONDUIT	9.6	10.4286	0.0130
C251	CB23	MH13	CONDUIT	9.8	1.0153	0.0130
C252	CB19	CB20	CONDUIT	15.2	1.4464	0.0130
C253	CB20	MH12	CONDUIT	15.9	0.8790	0.0130
C254	MH12	MH11	CONDUIT	12.7	7.2666	0.0130
C255	CB21	MH11	CONDUIT	3.3	9.6397	0.0130
C256	CB17	MH10	CONDUIT	13.1	1.2953	0.0130
C257	CB18	MH10	CONDUIT	2.9	3.4408	0.0130
C258	CB15	MH9	CONDUIT	9.3	0.2144	0.0130
C259	CB16	MH9	CONDUIT	4.3	2.3431	0.0130
C26	MH_11	MH_15	CONDUIT	56.2	0.5422	0.0130
C260	MH7	MH8	CONDUIT	81.0	0.4319	0.0130
C263	CBMH7	MH4	CONDUIT	22.6	1.2808	0.0130
C269	CBMH2	MH16	CONDUIT	20.1	3.1390	0.0130
C27	MH_14	MH_15	CONDUIT	97.1	0.8287	0.0130
C28	MH_15	MH_16	CONDUIT	22.7	0.6432	0.0130
C281	MH6	MH7	CONDUIT	43.9	0.4552	0.0130
C284	MH5	MH6	CONDUIT	23.2	0.3450	0.0130
C285	CBMH1	MH6	CONDUIT	41.3	0.3630	0.0130

C288	CBMH_1	MH_1	CONDUIT	47.1	0.4202	0.0130
C289	MH_1	MH_2	CONDUIT	75.0	0.7815	0.0130
C292	MH_2	OGS-	CONDUIT	18.2	0.4671	0.0130
C293	OGS-	OF13-	CONDUIT	18.7	0.9573	0.0130
C3	MH_17	MH_39	CONDUIT	58.3	0.4049	0.0100
C343	MH21	MH22	CONDUIT	21.6	0.1389	0.0130
C344	MH23	MH24	CONDUIT	93.3	0.1822	0.0130
C345	MH24	CB-58	CONDUIT	59.4	0.2357	0.0130
C346	MH25	MH26	CONDUIT	70.2	0.4845	0.0130
C347	MH26	OF24-	CONDUIT	50.3	4.9804	0.0130
C348	J125	J91	CONDUIT	8.0	-0.1248	0.0130
C349	J127	J125	CONDUIT	66.5	3.4622	0.0130
C350	J128	J127	CONDUIT	67.2	0.3125	0.0130
C351	J67	J70	CONDUIT	91.7	0.7678	0.0130
C352	J70	OF6-	CONDUIT	47.1	0.8940	0.0130
C353	J66	J116	CONDUIT	35.7	0.9794	0.0130
C4	MH_63	MH_64	CONDUIT	62.9	0.3243	0.0130
C437	J34	J128	CONDUIT	25.2	1.3320	0.0130
C48	MH_29	MH_30	CONDUIT	69.5	0.6041	0.0130
C5	MJ139	Gill_RD_Pond	CONDUIT	76.4	6.9284	0.0110
C50	MH_30	MH_37	CONDUIT	16.3	2.0267	0.0130
C53	MH_27	MH_37	CONDUIT	92.0	0.8152	0.0130
C54	MH_36	MH_37	CONDUIT	63.5	0.3592	0.0130
C6	J1	J7	CONDUIT	181.3	0.3365	0.0300
C653	MH11	MH13	CONDUIT	42.7	0.3981	0.0130
C655	MH3	MH4	CONDUIT	63.9	0.3132	0.0130
C656	MH2	MH3	CONDUIT	42.8	0.1401	0.0130
C657	MH13	CB26	CONDUIT	68.0	0.8672	0.0130
C658	MH13	MH14	CONDUIT	40.7	0.3932	0.0130
C660	MH9_Main	MH10_Main	CONDUIT	134.7	0.6089	0.0130
C662	MH6_Main	MH7_Main	CONDUIT	92.1	-0.0109	0.0130
C663	MH4_Main	MH5_Main	CONDUIT	85.2	0.9513	0.0130
C664	MH2_Main	MH3_Main	CONDUIT	67.3	0.7871	0.0130
C665	CB30	MH1_Main	CONDUIT	16.6	7.8707	0.0130
C666	MH16	OF17-	CONDUIT	30.3	0.6605	0.0130
C667	CBMH7_ON	CBMH8_ON	CONDUIT	93.3	0.4104	0.0130
C668	CBMH9_ON	CBMH10_Main	CONDUIT	10.0	31.7073	0.0130
C669	CBMH10_Main	OF19-	CONDUIT	19.7	6.4158	0.0130
C670	CBMH3_ON	CBMH4_ON	CONDUIT	68.5	0.3604	0.0130
C671	CBMH1_ON	CBMH2_ON	CONDUIT	105.9	0.2399	0.0130
C672	J78	J83	CONDUIT	190.5	0.0002	0.0130

C673	MH13_Main	MH13_Main_	CONDUIT	74.7	0.4015	0.0130
C674	J102	OF25-	CONDUIT	42.3	6.9030	0.0130
C685	J4	J5	CONDUIT	62.7	0.4560	0.0130
C686	J5	J12	CONDUIT	54.6	2.6223	0.0130
C687	J12	J15	CONDUIT	40.7	5.5862	0.0130
C688	J15	J20	CONDUIT	93.1	1.2852	0.0130
C689	J62	J24	CONDUIT	40.7	0.2749	0.0130
C690	J30	J5	CONDUIT	86.3	1.1007	0.0130
C7	J7	MJ112	CONDUIT	49.1	3.5856	0.0300
C700	MH8_Main	MH9_Main	CONDUIT	27.2	-0.1839	0.0130
C701	MH10_Main	MH11_Main	CONDUIT	69.8	0.6305	0.0130
C702	MH11_Main	OF3-	CONDUIT	7.4	4.5982	0.0130
C703	CBMH2_ON	CBMH3_ON	CONDUIT	90.8	0.2785	0.0130
C704	CBMH4_ON	CBMH5_ON	CONDUIT	27.1	-0.2586	0.0130
C705	CBMH5_ON	CBMH6_ON	CONDUIT	72.7	0.1114	0.0130
C707	CBMH6_ON	CBMH7_ON	CONDUIT	91.7	0.1592	0.0130
C708	CBMH8_ON	CBMH9_ON	CONDUIT	79.3	0.5004	0.0130
C709	J83	OF29-	CONDUIT	45.1	-396.0446	0.0130
C710	J95	J93	CONDUIT	10.7	2.0277	0.0130
C711	J93	J98	CONDUIT	79.8	1.2003	0.0130
C712	J101	J102	CONDUIT	64.9	0.7182	0.0130
C713	J98	J101	CONDUIT	58.9	0.6124	0.0130
C714	MH22	MH23	CONDUIT	57.9	-0.1556	0.0130
C715	MH25-1	MH25	CONDUIT	30.2	0.1987	0.0130
C716	MH9	MH10	CONDUIT	57.5	0.7128	0.0130
C717	MH4	MH8	CONDUIT	38.6	0.4399	0.0130
C718	MH1	MH2	CONDUIT	16.9	0.5316	0.0130
C727	J20	J24	CONDUIT	88.3	1.2954	0.0130
C734	J55	J62	CONDUIT	34.5	0.2264	0.0130
C735	J52	J55	CONDUIT	62.4	0.2034	0.0130
C736	J30	J31	CONDUIT	67.5	0.4398	0.0130
C737	J31	J36	CONDUIT	84.5	6.5747	0.0130
C738	J36	J42	CONDUIT	77.5	1.0928	0.0130
C739	J42	J43	CONDUIT	32.8	0.5860	0.0130
C740	J43	J50	CONDUIT	47.7	0.6264	0.0130
C741	J50	J24	CONDUIT	16.8	0.6248	0.0130
C751	MH7_Main	MH8_Main	CONDUIT	54.4	4.5484	0.0130
C752	MH5_Main	MH6_Main	CONDUIT	90.8	0.5617	0.0130
C753	MH3_Main	MH4_Main	CONDUIT	41.9	0.9067	0.0130
C754	MH1_Main	MH2_Main	CONDUIT	52.8	0.9467	0.0130
C755	MH14_Main	MH15_Main	CONDUIT	42.1	0.1425	0.0130

C756	MH13_Main_	MH14_Main	CONDUIT	18.2	0.1653	0.0130
C757	MH10	MH11	CONDUIT	41.1	0.4136	0.0130
C758	CB26	OF12-	CONDUIT	38.4	0.5024	0.0130
C759	J116	OF8-	CONDUIT	21.4	2.1075	0.0130
C760	J35	J34	CONDUIT	22.3	1.0632	0.0130
C762	J47	J125	CONDUIT	12.5	3.2016	0.0130
C763	J91	OF20-	CONDUIT	10.3	-7.5585	0.0130
C764	CB-58	MH25-1	CONDUIT	69.1	0.2460	0.0130
C765	J113	J110	CONDUIT	25.4	0.3945	0.0130
C766	J110	J101	CONDUIT	60.7	0.0889	0.0130
C767	MH14	MH15	CONDUIT	29.7	0.3700	0.0130
C77	MH_35	MH_36	CONDUIT	19.6	0.3563	0.0130
C8	J8	Rice_Pond	CONDUIT	36.1	2.4884	0.0110
C80	MH_34	MH_35	CONDUIT	63.7	0.5103	0.0130
C94	MH_16	MH_17	CONDUIT	104.8	0.4235	0.0130
CB72	MH41	Gill_RD_Pond	CONDUIT	58.9	0.8999	0.0130
MC_C6	MJ_	MJ64	CONDUIT	21.5	2.1384	0.0130
MC1	MJ1	MJ3	CONDUIT	135.2	0.0577	0.0130
MC10	MJ9	OF2-M-	CONDUIT	124.6	1.2312	0.0130
MC100	MJ81	MJ78	CONDUIT	11.0	0.1455	0.0130
MC101	MJ78	MJ90	CONDUIT	92.0	1.5904	0.0130
MC102	MJ80	MJ73	CONDUIT	32.3	1.1394	0.0130
MC103	MJ80	MJ83	CONDUIT	24.9	0.9719	0.0130
MC104	MJ82	MJ79	CONDUIT	7.9	0.5063	0.0130
MC105	MJ82	MJ74	CONDUIT	56.6	0.0707	0.0130
MC107	MJ84	MJ77	CONDUIT	36.5	9.0478	0.0130
MC108	MJ84	MJ91	CONDUIT	60.6	2.4876	0.0130
MC109	MJ84	MJ76	CONDUIT	61.1	3.1243	0.0130
MC11	MJ10	MJ14	CONDUIT	49.5	4.0700	0.0130
MC12	MJ10	MJ2	CONDUIT	159.9	3.5989	0.0130
MC120	MJ85	MJ74	CONDUIT	66.1	1.8778	0.0130
MC121	MJ85	MJ87	CONDUIT	41.9	1.3629	0.0130
MC122	MJ85	MJ81	CONDUIT	59.8	1.2392	0.0130
MC123	MJ93	MJ85	CONDUIT	57.7	1.8617	0.0130
MC124	MJ86	MJ80	CONDUIT	86.8	1.8805	0.0130
MC125	MJ88	MJ95	CONDUIT	403.1	0.4691	0.0130
MC126	MJ89	MJ83	CONDUIT	36.8	0.7609	0.0130
MC128	MJ91	MJ102	CONDUIT	82.5	1.5456	0.0130
MC129	MJ86	MJ91	CONDUIT	60.8	0.3536	0.0130
MC13	MJ11	MJ13	CONDUIT	28.6	0.4056	0.0130
MC130	MJ91	MJ97	CONDUIT	30.7	5.5591	0.0130

MC131	MJ92	MJ99	CONDUIT	33.3	1.7720	0.0130
MC132	MJ92	MJ122	CONDUIT	287.2	0.5975	0.0130
MC133	MJ92	MJ70	CONDUIT	133.7	2.0221	0.0130
MC135	MJ84	MJ94	CONDUIT	121.6	0.9268	0.0130
MC136	MJ95	MJ112	CONDUIT	81.9	0.6447	0.0130
MC137	MJ103	MJ96	CONDUIT	71.8	0.1267	0.0130
MC139	MJ98	MJ87	CONDUIT	106.9	0.0440	0.0130
MC14	MJ12	MJ3	CONDUIT	167.3	0.9635	0.0130
MC141	MJ101	MJ98	CONDUIT	20.7	1.5606	0.0130
MC142	MJ108	MJ98	CONDUIT	63.1	3.6601	0.0130
MC143	MJ99	MJ104	CONDUIT	59.7	1.9736	0.0130
MC144	MJ99	MJ107	CONDUIT	53.1	2.2812	0.0130
MC145	MJ100	OF9-M	CONDUIT	138.6	2.3246	0.0130
MC146	MJ103	MJ97	CONDUIT	29.3	1.9492	0.0130
MC147	MJ104	MJ116	CONDUIT	142.9	1.5579	0.0130
MC148	MJ115	MJ105	CONDUIT	61.4	1.5490	0.0130
MC149	MJ106	MJ102	CONDUIT	39.2	1.8115	0.0130
MC15	MJ14	MJ30	CONDUIT	22.9	0.5883	0.0130
MC150	MJ107	MJ129	CONDUIT	206.3	1.1586	0.0130
MC151	MJ104	MJ107	CONDUIT	29.0	0.1138	0.0130
MC152	MJ108	MJ93	CONDUIT	150.2	0.4727	0.0130
MC153	MJ108	MJ118	CONDUIT	62.4	1.5515	0.0130
MC154	MJ109	MJ114	CONDUIT	25.0	1.4442	0.0130
MC155	MJ109	MJ103	CONDUIT	37.9	4.9930	0.0130
MC156	MJ110	MJ128	CONDUIT	118.5	0.0262	0.0130
MC157	MJ111	MJ110	CONDUIT	74.0	0.6000	0.0130
MC158	MJ111	MJ112	CONDUIT	58.1	3.3254	0.0130
MC159	MJ112	MJ119	CONDUIT	53.0	0.7963	0.0130
MC16	MJ15	MJ36	CONDUIT	260.4	2.2510	0.0130
MC160	MJ113	MJ102	CONDUIT	59.9	2.2928	0.0130
MC161	MJ113	MJ103	CONDUIT	86.8	1.4183	0.0130
MC162	MJ114	MJ120	CONDUIT	85.2	0.7148	0.0130
MC163	MJ114	MJ101	CONDUIT	125.8	0.6717	0.0130
MC164	MJ117	MJ115	CONDUIT	27.5	0.4255	0.0130
MC165	MJ116	MJ129	CONDUIT	80.1	0.2459	0.0130
MC166	MJ117	MJ131	CONDUIT	101.8	1.2653	0.0130
MC167	MJ117	MJ90	CONDUIT	147.0	2.6315	0.0130
MC168	MJ118	MJ105	CONDUIT	150.7	0.1573	0.0130
MC169	MJ119	OF26-M	CONDUIT	75.5	2.6287	0.0130
MC17	MJ15	MJ7	CONDUIT	93.9	2.0697	0.0130
MC170	MJ113	MJ120	CONDUIT	61.3	0.5073	0.0130

MC171	MJ121	MJ115	CONDUIT	74.5	1.6620	0.0130
MC172	MJ122	MJ100	CONDUIT	133.6	1.4897	0.0130
MC173	MJ123	MJ114	CONDUIT	62.5	4.1716	0.0130
MC174	MJ123	MJ127	CONDUIT	79.9	1.5985	0.0130
MC175	MJ123	MJ130	CONDUIT	62.4	1.7150	0.0130
MC176	MJ123	MJ108	CONDUIT	146.0	1.0035	0.0130
MC177	MJ124	MJ119	CONDUIT	39.3	0.4300	0.0130
MC178	MJ125	MJ118	CONDUIT	59.8	2.3468	0.0130
MC179	MJ126	MJ131	CONDUIT	44.9	2.0049	0.0130
MC18	MJ16	MJ13	CONDUIT	89.0	0.0494	0.0130
MC180	MJ126	MJ122	CONDUIT	88.7	1.0158	0.0130
MC181	MJ127	MJ120	CONDUIT	62.4	3.1057	0.0130
MC182_1	MJ128	MH41_S	CONDUIT	49.8	0.4619	0.0130
MC182_2	MH36_S	MH34_S	CONDUIT	36.1	1.3508	0.0130
MC182_3	MH36_S	MH41_S	CONDUIT	28.8	0.3848	0.0130
MC182_5	MH34_S	MJ124	CONDUIT	33.6	3.2856	0.0130
MC183	MJ129	MJ132	CONDUIT	28.7	0.1324	0.0130
MC184	MJ130	MJ118	CONDUIT	143.9	0.9472	0.0130
MC185	MJ131	MJ135	CONDUIT	67.8	1.4751	0.0130
MC186	MJ131	MJ136	CONDUIT	53.3	1.6663	0.0130
MC187	MJ133	MJ125	CONDUIT	98.4	0.4624	0.0130
MC188	MJ147	MJ134	CONDUIT	173.9	0.9328	0.0130
MC189	MJ136	MJ134	CONDUIT	97.4	2.0292	0.0130
MC19	MJ17	MJ19	CONDUIT	20.2	4.1620	0.0130
MC190	MJ136	MJ148	CONDUIT	187.8	0.1874	0.0130
MC191	MJ137	MJ134	CONDUIT	270.3	0.3862	0.0130
MC192	MJ138	MJ130	CONDUIT	82.2	2.1465	0.0130
MC193	MJ138	MJ143	CONDUIT	110.3	3.3328	0.0130
MC194_1	MH37_S	MJ139	CONDUIT	27.9	1.4505	0.0130
MC194_2	MH37_S	MJ140	CONDUIT	79.1	0.2034	0.0130
MC195	MJ140	MJ128	CONDUIT	131.2	0.0663	0.0130
MC196	MJ149	MH2_S	CONDUIT	23.9	0.2093	0.0130
MC197	MH3_S	MH2_S	CONDUIT	42.6	0.3760	0.0130
MC198	MJ143	MH3_S	CONDUIT	68.5	0.0730	0.0130
MC199	MJ143	MH8_S	CONDUIT	28.8	0.6939	0.0130
MC2	MJ2	MJ1	CONDUIT	43.3	0.6537	0.0130
MC20	MJ25	MJ18	CONDUIT	41.3	0.2322	0.0130
MC200	MH8_S	MH9__S	CONDUIT	41.7	0.5519	0.0130
MC201	MH9__S	MH10__S	CONDUIT	57.2	1.0142	0.0130
MC202	MH10__S	MH11__S	CONDUIT	42.2	0.9005	0.0130
MC203	MJ144	MJ145	CONDUIT	172.1	0.1859	0.0130

MC204	MJ144	MJ124	CONDUIT	199.9	1.2367	0.0130
MC205	MJ145	OF22_M	CONDUIT	55.0	2.5754	0.0130
MC206	MJ147	MH21_S	CONDUIT	67.2	0.3124	0.0130
MC207	MH21_S	MJ146	CONDUIT	140.1	0.3127	0.0130
MC208	MJ148	MJ147	CONDUIT	23.7	0.0084	0.0130
MC209	MJ150	MJ151	CONDUIT	45.7	2.3179	0.0130
MC21	MJ19	OF4-M	CONDUIT	39.7	13.9110	0.0130
MC210	MJ150	MH8_S	CONDUIT	139.7	0.3442	0.0130
MC211	MJ151	OF11-M	CONDUIT	12.4	4.6987	0.0130
MC212	MJ152	MJ148	CONDUIT	288.9	0.2388	0.0130
MC213	MJ153	MJ152	CONDUIT	245.8	0.2522	0.0130
MC214_1	MJ154	J8	CONDUIT	73.9	0.1056	0.0130
MC214_2	J8	MJ153	CONDUIT	72.7	0.1059	0.0130
MC215	MJ155	MJ154	CONDUIT	125.0	0.5648	0.0130
MC216	MJ156	MJ155	CONDUIT	105.8	0.6323	0.0130
MC217	MJ156	MJ154	CONDUIT	187.0	0.7353	0.0130
MC218	MJ157	MJ152	CONDUIT	486.8	0.5156	0.0130
MC219	MJ135	MJ142	CONDUIT	72.7	0.8639	0.0130
MC22	MJ20	MJ32	CONDUIT	77.6	1.7280	0.0130
MC220	MJ135	MH11__S	CONDUIT	42.3	1.1336	0.0130
MC221	MJ53	MJ61	CONDUIT	58.5	2.5772	0.0130
MC223	MJ53	MJ46	CONDUIT	55.3	1.2482	0.0130
MC224	MJ54	MJ37	CONDUIT	94.3	4.0462	0.0130
MC225	MJ68	MJ75	CONDUIT	37.1	3.3579	0.0130
MC226	MJ79	MJ72	CONDUIT	28.7	0.7328	0.0130
MC227	MJ83	MJ72	CONDUIT	90.7	0.0441	0.0130
MC228	MJ89	MJ82	CONDUIT	90.5	0.0774	0.0130
MC229	MJ96	MJ89	CONDUIT	75.8	0.2044	0.0130
MC23	MJ21	MJ13	CONDUIT	131.7	0.2475	0.0130
MC230	MJ98	MJ89	CONDUIT	60.9	0.9969	0.0130
MC231	MJ93	MJ105	CONDUIT	63.5	0.7798	0.0130
MC232	MJ18	MJ26	CONDUIT	61.8	0.7819	0.0130
MC24	MJ22	OF32-M	CONDUIT	84.3	1.7084	0.0130
MC25	MJ23	MJ21	CONDUIT	34.3	0.9826	0.0130
MC26	MJ45	MJ25	CONDUIT	60.8	2.1998	0.0130
MC27	MJ26	OF31-M	CONDUIT	95.3	1.5725	0.0130
MC28	MJ27	OF2-M	CONDUIT	95.8	2.8401	0.0130
MC29	MJ28	MJ32	CONDUIT	40.6	2.8199	0.0130
MC3	MJ3	OF7-M	CONDUIT	20.9	1.2253	0.0130
MC30	MJ28	MJ31	CONDUIT	53.6	3.7550	0.0130
MC31	MJ17	MJ29	CONDUIT	88.9	0.8887	0.0130

MC32	MJ30	MJ31	CONDUIT	78.6	0.3522	0.0130
MC33	MJ31	MJ1	CONDUIT	86.7	4.1641	0.0130
MC34	MJ32	MJ57	CONDUIT	101.0	3.0805	0.0130
MC35	MJ33	MJ29	CONDUIT	32.9	1.9730	0.0130
MC36	MJ33	MJ38	CONDUIT	47.9	0.0397	0.0130
MC37	MJ34	MJ21	CONDUIT	54.9	1.3972	0.0130
MC38	MJ35	MJ27	CONDUIT	41.9	0.7995	0.0130
MC39	MJ36	MJ24	CONDUIT	173.3	0.4963	0.0130
MC4	MJ4	MJ2	CONDUIT	63.0	3.0989	0.0130
MC40	MJ158	MJ44	CONDUIT	40.0	0.2123	0.0130
MC41	MJ37	MJ48	CONDUIT	129.5	1.6902	0.0130
MC42	MJ39	MJ47	CONDUIT	30.9	3.6237	0.0130
MC43	MJ39	MJ29	CONDUIT	79.1	3.6801	0.0130
MC44	MJ40	MJ19	CONDUIT	124.8	1.5467	0.0130
MC45	MJ40	MJ47	CONDUIT	55.7	0.1616	0.0130
MC46	MJ41	MJ25	CONDUIT	69.8	0.0487	0.0130
MC47	MJ42	MJ35	CONDUIT	55.8	0.8961	0.0130
MC48	MJ43	MJ22	CONDUIT	206.3	0.2385	0.0130
MC49	MJ43	MJ67	CONDUIT	226.5	0.2927	0.0130
MC5	MJ5	MJ10	CONDUIT	19.1	0.6550	0.0130
MC50	MJ44	MJ26	CONDUIT	144.4	0.3587	0.0130
MC51	MJ45	MJ26	CONDUIT	67.7	2.8309	0.0130
MC52	MJ45	MJ20	CONDUIT	51.3	2.9504	0.0130
MC53	MJ46	MJ35	CONDUIT	63.7	2.2062	0.0130
MC54	MJ49	MJ47	CONDUIT	23.3	0.3004	0.0130
MC55	MJ49	MJ58	CONDUIT	54.2	0.8875	0.0130
MC56	MJ56	MJ49	CONDUIT	45.8	0.0371	0.0130
MC57	MJ49	MJ38	CONDUIT	67.0	1.8361	0.0130
MC58	MJ50	MJ52	CONDUIT	27.6	0.0435	0.0130
MC59	MJ51	MJ55	CONDUIT	99.2	2.5240	0.0130
MC6	MJ13	OF3-M	CONDUIT	79.6	1.0905	0.0130
MC62	MJ54	MJ61	CONDUIT	36.0	4.7442	0.0130
MC64	MJ55	MJ48	CONDUIT	45.0	4.6316	0.0130
MC65	MJ56	MJ63	CONDUIT	58.9	1.1665	0.0130
MC66	MJ56	MJ34	CONDUIT	146.2	2.2057	0.0130
MC67	MJ56	MJ74	CONDUIT	85.4	0.3126	0.0130
MC68	MJ57	MJ3	CONDUIT	39.4	3.6608	0.0130
MC69	MJ52	MJ58	CONDUIT	38.1	0.4514	0.0130
MC7	MJ7	MJ22	CONDUIT	333.2	0.1279	0.0130
MC70	MJ60	MJ55	CONDUIT	42.2	3.5069	0.0130
MC71	MJ62	MJ69	CONDUIT	71.4	2.2078	0.0130

MC72	MJ62	MJ51	CONDUIT	50.3	5.6551	0.0130
MC73	MJ63	MJ42	CONDUIT	112.4	1.4014	0.0130
MC74	MJ63	MJ64	CONDUIT	18.0	0.3333	0.0130
MC75	MJ72	MJ63	CONDUIT	54.8	0.3832	0.0130
MC76	MJ_	MJ53	CONDUIT	34.0	1.1168	0.0130
MC77	MJ65	MJ73	CONDUIT	28.0	0.4357	0.0130
MC78	MJ65	MJ61	CONDUIT	37.1	4.6736	0.0130
MC79	MJ66	MJ55	CONDUIT	57.6	3.0587	0.0130
MC8	MJ8	MJ36	CONDUIT	243.0	2.6058	0.0130
MC80	MJ67	MJ92	CONDUIT	237.2	0.0105	0.0130
MC82	MJ68	MJ59	CONDUIT	52.0	4.3676	0.0130
MC83	MJ68	MJ59	CONDUIT	83.2	2.7282	0.0130
MC84	MJ69	MJ60	CONDUIT	54.2	4.2252	0.0130
MC85	MJ70	MJ100	CONDUIT	282.1	0.3555	0.0130
MC86	MJ70	OF30-M	CONDUIT	133.3	2.5778	0.0130
MC87	MJ71	MJ48	CONDUIT	114.6	2.2320	0.0130
MC89	MJ73	MJ64	CONDUIT	74.1	0.2483	0.0130
MC9	MJ8	MJ15	CONDUIT	154.2	0.3048	0.0130
MC90	MJ78	MJ75	CONDUIT	16.0	1.0251	0.0130
MC91	MJ75	OF5-M	CONDUIT	38.8	0.2835	0.0130
MC92	MJ76	MJ69	CONDUIT	35.2	4.0943	0.0130
MC93	MJ76	MJ65	CONDUIT	84.9	1.4866	0.0130
MC97	MJ86	MJ76	CONDUIT	59.5	1.0353	0.0130
MC98	MJ77	MJ66	CONDUIT	50.5	4.0925	0.0130
MC99	MJ77	MJ69	CONDUIT	59.5	0.0992	0.0130
MJ-C5	J1	J2	CONDUIT	172.3	0.0754	0.0300
MJ-C6	J2	J3	CONDUIT	167.9	0.7682	0.0300
MJ-C7	J3	J6	CONDUIT	110.4	0.3169	0.0300
MJ-C8	J6	OF27-M	CONDUIT	80.0	2.9621	0.0300
OL5	Gill_RD_Pond	DICBMH42	ORIFICE			
OL1	Rice_Pond	RICE_POND_OUTLET	OUTLET			
OL10	MH3_S	MH3	OUTLET			
OL11	MJ148	CBMH5	OUTLET			
OL12	MJ147	J128	OUTLET			
OL13	MH21_S	MH21	OUTLET			
OL14	MJ146	MH24	OUTLET			
OL15	MH9__S	MH9	OUTLET			
OL16	MJ21	MH9_Main	OUTLET			
OL17	MJ13	MH10_Main	OUTLET			
OL18	MJ151	MH5	OUTLET			
OL19	MJ112	MH30	OUTLET			

OL2	MJ135	MH13	OUTLET
OL20	MH34_S	MH34	OUTLET
OL21	MH37_S	MH37	OUTLET
OL22	MJ56	MH6_Main	OUTLET
OL23	MJ74	MH5_Main	OUTLET
OL24	MJ93	MH3_Main	OUTLET
OL25	MJ105	MH2_Main	OUTLET
OL26	MJ115	MH1_Main	OUTLET
OL27	MJ154	MH_39	OUTLET
OL28	MJ134	J125	OUTLET
OL29	MJ142	CB26	OUTLET
OL3	MH2_S	MH2	OUTLET
OL30	MJ67	CBMH1_ON	OUTLET
OL31	MJ15	J5	OUTLET
OL32	MJ36	J24	OUTLET
OL33	MJ8	J31	OUTLET
OL34	MJ24	J52	OUTLET
OL35	MJ104	J95	OUTLET
OL36	MJ107	J113	OUTLET
OL37	MJ129	J101	OUTLET
OL38	MJ132	J102	OUTLET
OL39	MJ92	CBMH5_ON	OUTLET
OL4	MJ143	MH4	OUTLET
OL40	MJ122	CBMH8_ON	OUTLET
OL41	MJ126	CBMH9_ON	OUTLET
OL42	MJ145	CB-58	OUTLET
OL43	MJ144	MH26	OUTLET
OL44	MJ156	MH_15	OUTLET
OL45	MJ155	MH_37	OUTLET
OL46	MJ153	MH_65	OUTLET
OL47	MJ73	MH13_Main	OUTLET
OL48	MJ63	MH14_Main	OUTLET
OL49	MJ64	MH13_Main_	OUTLET
OL50	MJ140	MH39	OUTLET
OL51	MJ128	MH40	OUTLET
OL52	MJ110	MH32	OUTLET
OL53	MJ3	J70	OUTLET
OL6	MJ131	CBMH2	OUTLET
OL7	MJ152	MH_56	OUTLET
OL8	MH10__S	MH10	OUTLET
OL9	MH11__S	MH11	OUTLET

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C_dummy	TRIANGULAR	1.00	0.50	0.22	1.00	1	8.34
C1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.30
C100	CIRCULAR	0.82	0.53	0.21	0.82	1	0.70
C106	CIRCULAR	0.68	0.36	0.17	0.68	1	0.61
C108	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C110	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C111	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C113	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C114	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C115	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C116	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C118	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C119_1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.25
C119_2	CIRCULAR	0.82	0.53	0.21	0.82	1	0.78
C123	CIRCULAR	0.45	0.16	0.11	0.45	1	0.17
C124	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C125	CIRCULAR	0.90	0.64	0.23	0.90	1	1.50
C126	CIRCULAR	0.90	0.64	0.23	0.90	1	1.08
C127	CIRCULAR	0.53	0.22	0.13	0.53	1	0.40
C128	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C129	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C130	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C145	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C147	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C150	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C151	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C156	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C159	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C160	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C161	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C164	CIRCULAR	0.45	0.16	0.11	0.45	1	0.71
C165	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C167	CIRCULAR	0.53	0.22	0.13	0.53	1	0.24

C185	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C186	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C187	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C188	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C189	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C190	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C193	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C194	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C2	CIRCULAR	0.68	0.36	0.17	0.68	1	0.50
C200-	CIRCULAR	0.60	0.28	0.15	0.60	1	0.48
C205	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C206	CIRCULAR	0.45	0.16	0.11	0.45	1	0.14
C207	CIRCULAR	0.45	0.16	0.11	0.45	1	0.15
C211	CIRCULAR	0.82	0.53	0.21	0.82	1	5.14
C212	CIRCULAR	0.82	0.53	0.21	0.82	1	0.63
C213	CIRCULAR	0.82	0.53	0.21	0.82	1	0.62
C228	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C229	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C230	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C231	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C232	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C233	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C234	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C235	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C239	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C240	CIRCULAR	0.30	0.07	0.07	0.30	1	0.16
C244	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C245	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C246	CIRCULAR	0.53	0.22	0.13	0.53	1	0.69
C248	CIRCULAR	0.75	0.44	0.19	0.75	1	0.71
C250	CIRCULAR	0.30	0.07	0.07	0.30	1	0.31
C251	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C252	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C253	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C254	CIRCULAR	0.30	0.07	0.07	0.30	1	0.26
C255	CIRCULAR	0.30	0.07	0.07	0.30	1	0.30
C256	CIRCULAR	0.38	0.11	0.09	0.38	1	0.20
C257	CIRCULAR	0.30	0.07	0.07	0.30	1	0.18
C258	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C259	CIRCULAR	0.30	0.07	0.07	0.30	1	0.15
C26	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21

C260	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C263	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C269	CIRCULAR	0.38	0.11	0.09	0.38	1	0.31
C27	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C28	CIRCULAR	0.60	0.28	0.15	0.60	1	0.49
C281	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C284	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C285	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C288	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C289	CIRCULAR	0.45	0.16	0.11	0.45	1	0.25
C292	CIRCULAR	0.45	0.16	0.11	0.45	1	0.19
C293	CIRCULAR	0.45	0.16	0.11	0.45	1	0.28
C3	CIRCULAR	0.60	0.28	0.15	0.60	1	0.51
C343	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C344	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C345	CIRCULAR	0.53	0.22	0.13	0.53	1	0.21
C346	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C347	CIRCULAR	0.60	0.28	0.15	0.60	1	1.37
C348	CIRCULAR	0.45	0.16	0.11	0.45	1	0.10
C349	CIRCULAR	0.40	0.13	0.10	0.40	1	0.39
C350	CIRCULAR	0.40	0.13	0.10	0.40	1	0.12
C351	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C352	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C353	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C4	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C437	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C48	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C5	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	13.42
C50	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C53	CIRCULAR	0.60	0.28	0.15	0.60	1	0.55
C54	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C6	TRIANGULAR	1.00	1.20	0.38	2.40	1	1.23
C653	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C655	CIRCULAR	0.60	0.28	0.15	0.60	1	0.34
C656	CIRCULAR	0.60	0.28	0.15	0.60	1	0.23
C657	CIRCULAR	0.68	0.36	0.17	0.68	1	0.78
C658	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C660	CIRCULAR	0.45	0.16	0.11	0.45	1	0.22
C662	CIRCULAR	0.45	0.16	0.11	0.45	1	0.03
C663	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C664	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09

C665	CIRCULAR	0.30	0.07	0.07	0.30	1	0.27
C666	CIRCULAR	0.75	0.44	0.19	0.75	1	0.90
C667	CIRCULAR	0.60	0.28	0.15	0.60	1	0.39
C668	CIRCULAR	0.75	0.44	0.19	0.75	1	6.27
C669	CIRCULAR	0.82	0.53	0.21	0.82	1	3.64
C670	CIRCULAR	0.60	0.28	0.15	0.60	1	0.37
C671	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C672	CIRCULAR	0.30	0.07	0.07	0.30	1	0.00
C673	CIRCULAR	0.45	0.16	0.11	0.45	1	0.18
C674	CIRCULAR	0.25	0.05	0.06	0.25	1	0.16
C685	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C686	CIRCULAR	0.38	0.11	0.09	0.38	1	0.28
C687	CIRCULAR	0.38	0.11	0.09	0.38	1	0.41
C688	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C689	CIRCULAR	0.68	0.36	0.17	0.68	1	0.44
C690	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C7	CIRCULAR	1.00	0.79	0.25	1.00	1	1.97
C700	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C701	CIRCULAR	0.45	0.16	0.11	0.45	1	0.23
C702	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C703	CIRCULAR	0.47	0.18	0.12	0.47	1	0.17
C704	CIRCULAR	0.60	0.28	0.15	0.60	1	0.31
C705	CIRCULAR	0.60	0.28	0.15	0.60	1	0.20
C707	CIRCULAR	0.60	0.28	0.15	0.60	1	0.25
C708	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C709	CIRCULAR	0.30	0.07	0.07	0.30	1	1.92
C710	CIRCULAR	0.25	0.05	0.06	0.25	1	0.08
C711	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C712	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C713	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C714	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C715	CIRCULAR	0.60	0.28	0.15	0.60	1	0.27
C716	CIRCULAR	0.60	0.28	0.15	0.60	1	0.52
C717	CIRCULAR	0.60	0.28	0.15	0.60	1	0.41
C718	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C727	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C734	CIRCULAR	0.68	0.36	0.17	0.68	1	0.40
C735	CIRCULAR	0.68	0.36	0.17	0.68	1	0.38
C736	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C737	CIRCULAR	0.38	0.11	0.09	0.38	1	0.45
C738	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18

C739	CIRCULAR	0.53	0.22	0.13	0.53	1	0.33
C740	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C741	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C751	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C752	CIRCULAR	0.35	0.10	0.09	0.35	1	0.11
C753	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C754	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C755	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C756	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C757	CIRCULAR	0.75	0.44	0.19	0.75	1	0.72
C758	CIRCULAR	0.68	0.36	0.17	0.68	1	0.60
C759	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C760	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C762	CIRCULAR	0.30	0.07	0.07	0.30	1	0.17
C763	CIRCULAR	0.45	0.16	0.11	0.45	1	0.78
C764	CIRCULAR	0.60	0.28	0.15	0.60	1	0.30
C765	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C766	CIRCULAR	0.25	0.05	0.06	0.25	1	0.02
C767	CIRCULAR	0.75	0.44	0.19	0.75	1	0.68
C77	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	8.04
C80	CIRCULAR	0.45	0.16	0.11	0.45	1	0.20
C94	CIRCULAR	0.60	0.28	0.15	0.60	1	0.40
CB72	CIRCULAR	0.53	0.22	0.13	0.53	1	0.41
MC_C6	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	140.85
MC1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	23.13
MC10	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.88
MC100	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	36.73
MC101	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.47
MC102	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	102.81
MC103	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.96
MC104	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.54
MC105	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	25.61
MC107	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	289.72
MC108	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	151.91
MC109	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	170.25
MC11	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.32
MC12	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	182.72
MC120	Main_Street	0.35	4.72	0.25	23.30	1	19.72
MC121	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	112.45
MC122	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.22

MC123	Main_Street	0.35	4.72	0.25	23.30	1	19.63
MC124	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	132.08
MC125	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.97
MC126	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	84.02
MC128	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.75
MC129	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.28
MC13	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	61.34
MC130	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	227.10
MC131	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	22.98
MC132	Ontario_Street	0.30	3.89	0.21	19.00	1	8.23
MC133	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	136.97
MC135	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	92.73
MC136	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.34
MC137	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	34.29
MC139	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.20
MC14	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.54
MC141	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.32
MC142	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.27
MC143	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.25
MC144	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.07
MC145	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.32
MC146	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	134.47
MC147	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.22
MC148	Main_Street	0.35	4.72	0.25	23.30	1	17.91
MC149	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	129.64
MC15	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	73.88
MC150	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	103.67
MC151	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	32.49
MC152	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	66.22
MC153	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.97
MC154	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	115.75
MC155	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	215.22
MC156	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	15.58
MC157	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	74.61
MC158	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.64
MC159	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.95
MC16	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	144.51
MC160	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	145.84
MC161	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.71
MC162	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	81.43
MC163	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.94

MC164	Main_Street	0.35	4.72	0.25	23.30	1	9.38
MC165	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.56
MC166	Main_Street	0.35	4.72	0.25	23.30	1	16.18
MC167	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.25
MC168	Main_Street	0.35	4.72	0.25	23.30	1	5.71
MC169	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.16
MC17	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	138.57
MC170	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.61
MC171	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	124.17
MC172	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	21.07
MC173	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.73
MC174	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.78
MC175	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.14
MC176	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.49
MC177	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.16
MC178	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	147.55
MC179	Ontario_Street	0.30	3.89	0.21	19.00	1	15.08
MC18	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.42
MC180	Ontario_Street	0.30	3.89	0.21	19.00	1	10.74
MC181	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.74
MC182_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.46
MC182_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	111.95
MC182_3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.75
MC182_5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	174.59
MC183	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	35.05
MC184	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.74
MC185	Ontario_Street	0.30	3.89	0.21	19.00	1	12.94
MC186	Main_Street	0.35	4.72	0.25	23.30	1	18.57
MC187	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.50
MC188	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.02
MC189	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.59
MC19	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.50
MC190	Ontario_Street	0.30	3.89	0.21	19.00	1	4.61
MC191	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.86
MC192	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	141.11
MC193	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.84
MC194_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	116.00
MC194_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.44
MC195	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	24.80
MC196	Ontario_Street	0.30	3.89	0.21	19.00	1	4.87
MC197	Ontario_Street	0.30	3.89	0.21	19.00	1	6.53

MC198	Ontario_Street	0.30	3.89	0.21	19.00	1	2.88
MC199	Ontario_Street	0.30	3.89	0.21	19.00	1	8.87
MC2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.88
MC20	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	46.41
MC200	Ontario_Street	0.30	3.89	0.21	19.00	1	7.91
MC201	Ontario_Street	0.30	3.89	0.21	19.00	1	10.73
MC202	Ontario_Street	0.30	3.89	0.21	19.00	1	10.11
MC203	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	41.53
MC204	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.11
MC205	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.57
MC206	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.84
MC207	Gill_Rd	0.30	4.92	0.20	24.00	1	7.28
MC208	Gill_Rd	0.30	4.92	0.20	24.00	1	1.20
MC209	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	146.64
MC21	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	359.24
MC210	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	56.51
MC211	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.79
MC212	Main_Street	0.35	4.72	0.25	23.30	1	7.03
MC213	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.37
MC214_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.30
MC214_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.34
MC215	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	72.39
MC216	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	76.59
MC217	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.59
MC218	Main_Street	0.35	4.72	0.25	23.30	1	10.33
MC219	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	89.52
MC22	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.62
MC220	Ontario_Street	0.30	3.89	0.21	19.00	1	11.34
MC221	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.63
MC223	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	19.28
MC224	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	193.75
MC225	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	176.50
MC226	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.45
MC227	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.22
MC228	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	26.79
MC229	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.54
MC23	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.59
MC230	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.17
MC231	Main_Street	0.35	4.72	0.25	23.30	1	12.71
MC232	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.17
MC24	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.90

MC25	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	95.47
MC26	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	142.86
MC27	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.78
MC28	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.32
MC29	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	161.74
MC3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.62
MC30	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	186.64
MC31	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.80
MC32	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.16
MC33	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.55
MC34	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.05
MC35	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	135.29
MC36	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	19.18
MC37	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	20.40
MC38	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	86.13
MC39	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	67.85
MC4	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.56
MC40	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	44.38
MC41	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.22
MC42	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	183.35
MC43	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.77
MC44	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.79
MC45	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	38.72
MC46	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.25
MC47	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	91.18
MC48	Ontario_Street	0.30	3.89	0.21	19.00	1	5.20
MC49	Ontario_Street	0.30	3.89	0.21	19.00	1	5.76
MC5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.95
MC50	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.69
MC51	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.06
MC52	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	165.44
MC53	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.06
MC54	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	52.79
MC55	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.74
MC56	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	18.56
MC57	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	130.52
MC58	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.08
MC59	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	153.02
MC6	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	18.02
MC62	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	209.79
MC64	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	207.29

MC65	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	104.03
MC66	Main_Street	0.35	4.72	0.25	23.30	1	21.37
MC67	Main_Street	0.35	4.72	0.25	23.30	1	8.05
MC68	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.29
MC69	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	64.72
MC7	Ontario_Street	0.30	3.89	0.21	19.00	1	3.81
MC70	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	180.37
MC71	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.12
MC72	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	229.05
MC73	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.02
MC74	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	55.61
MC75	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.63
MC76	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	101.79
MC77	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.58
MC78	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.23
MC79	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	168.45
MC8	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	155.48
MC80	Ontario_Street	0.30	3.89	0.21	19.00	1	1.09
MC82	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	201.29
MC83	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	159.09
MC84	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	197.98
MC85	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.43
MC86	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	27.71
MC87	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.90
MC89	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.00
MC9	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.18
MC90	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	97.52
MC91	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	51.29
MC92	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.90
MC93	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	117.44
MC97	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	98.01
MC98	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.85
MC99	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	30.33
MJ-C5	TRIANGULAR	0.50	0.60	0.23	2.40	1	0.21
MJ-C6	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	7.81
MJ-C7	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.05
MJ-C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	3.22

****

Transect Summary
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Transect Gill_Rd
Area:

0.0010	0.0039	0.0088	0.0156	0.0244
0.0351	0.0478	0.0624	0.0790	0.0976
0.1171	0.1366	0.1561	0.1756	0.1951
0.2146	0.2341	0.2537	0.2732	0.2927
0.3122	0.3317	0.3512	0.3707	0.3902
0.4100	0.4300	0.4505	0.4714	0.4927
0.5143	0.5364	0.5588	0.5817	0.6049
0.6285	0.6525	0.6769	0.7017	0.7268
0.7524	0.7783	0.8047	0.8314	0.8585
0.8860	0.9140	0.9422	0.9709	1.0000

Hrad:

0.0147	0.0294	0.0441	0.0588	0.0736
0.0883	0.1030	0.1177	0.1324	0.1471
0.1764	0.2056	0.2348	0.2640	0.2931
0.3222	0.3512	0.3802	0.4091	0.4380
0.4669	0.4957	0.5245	0.5532	0.5819
0.5995	0.6170	0.6344	0.6517	0.6689
0.6861	0.7031	0.7201	0.7370	0.7539
0.7706	0.7873	0.8040	0.8206	0.8371
0.8536	0.8700	0.8864	0.9028	0.9191
0.9353	0.9516	0.9677	0.9839	1.0000

Width:

0.0667	0.1333	0.2000	0.2667	0.3333
0.4000	0.4667	0.5333	0.6000	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6800	0.6933	0.7067	0.7200	0.7333
0.7467	0.7600	0.7733	0.7867	0.8000
0.8133	0.8267	0.8400	0.8533	0.8667
0.8800	0.8933	0.9067	0.9200	0.9333
0.9467	0.9600	0.9733	0.9867	1.0000

Transect Local_Curb_Simp
Area:

0.0011	0.0043	0.0097	0.0171	0.0261

```
            0.0367     0.0489     0.0624     0.0759     0.0894
            0.1030     0.1165     0.1300     0.1436     0.1576
            0.1722     0.1874     0.2031     0.2194     0.2362
            0.2536     0.2716     0.2901     0.3092     0.3288
            0.3489     0.3697     0.3910     0.4128     0.4352
            0.4582     0.4817     0.5057     0.5304     0.5555
            0.5813     0.6076     0.6344     0.6618     0.6898
            0.7183     0.7474     0.7770     0.8072     0.8379
            0.8692     0.9011     0.9335     0.9665     1.0000
Hrad:
            0.0193     0.0385     0.0578     0.0802     0.1019
            0.1227     0.1431     0.1756     0.2132     0.2506
            0.2878     0.3248     0.3617     0.3985     0.4340
            0.4674     0.4989     0.5286     0.5567     0.5832
            0.6083     0.6320     0.6545     0.6758     0.6961
            0.7153     0.7336     0.7511     0.7678     0.7837
            0.7989     0.8135     0.8274     0.8408     0.8536
            0.8660     0.8778     0.8893     0.9003     0.9109
            0.9211     0.9310     0.9406     0.9499     0.9589
            0.9676     0.9761     0.9843     0.9922     1.0000
Width:
            0.0640     0.1280     0.1920     0.2420     0.2900
            0.3380     0.3860     0.4000     0.4000     0.4000
            0.4000     0.4000     0.4000     0.4075     0.4240
            0.4405     0.4569     0.4734     0.4898     0.5063
            0.5227     0.5392     0.5557     0.5721     0.5886
            0.6050     0.6215     0.6379     0.6544     0.6709
            0.6873     0.7038     0.7202     0.7367     0.7531
            0.7696     0.7861     0.8025     0.8190     0.8354
            0.8519     0.8683     0.8848     0.9013     0.9177
            0.9342     0.9506     0.9671     0.9835     1.0000

Transect Local_NoCurb_Simp
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
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            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000

Transect Main_Street
Area:
            0.0011     0.0042     0.0095     0.0170     0.0265
            0.0382     0.0519     0.0678     0.0850     0.1029
            0.1208     0.1387     0.1566     0.1745     0.1924
            0.2103     0.2282     0.2461     0.2640     0.2819
            0.2998     0.3177     0.3356     0.3535     0.3714
            0.3893     0.4072     0.4251     0.4430     0.4614
            0.4806     0.5006     0.5215     0.5431     0.5656
            0.5889     0.6130     0.6379     0.6636     0.6901
            0.7174     0.7456     0.7746     0.8043     0.8349
            0.8663     0.8985     0.9315     0.9654     1.0000
Hrad:
            0.0142     0.0284     0.0425     0.0567     0.0709
            0.0851     0.0992     0.1151     0.1357     0.1625
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            0.1906     0.2186     0.2465     0.2743     0.3021
            0.3298     0.3575     0.3851     0.4126     0.4400
            0.4674     0.4948     0.5220     0.5492     0.5764
            0.6034     0.6304     0.6574     0.6844     0.7109
            0.7357     0.7589     0.7807     0.8010     0.8200
            0.8378     0.8545     0.8701     0.8848     0.8985
            0.9115     0.9236     0.9351     0.9459     0.9561
            0.9658     0.9750     0.9837     0.9921     1.0000
Width:
            0.0605     0.1210     0.1814     0.2419     0.3024
            0.3629     0.4233     0.4761     0.5061     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5137     0.5368
            0.5600     0.5831     0.6063     0.6295     0.6526
            0.6758     0.6989     0.7221     0.7453     0.7684
            0.7916     0.8147     0.8379     0.8610     0.8842
            0.9074     0.9305     0.9537     0.9768     1.0000

Transect Ontario_Street
Area:
            0.0007     0.0028     0.0063     0.0113     0.0176
            0.0254     0.0345     0.0451     0.0570     0.0704
            0.0852     0.1014     0.1190     0.1380     0.1584
            0.1796     0.2007     0.2218     0.2429     0.2641
            0.2852     0.3063     0.3274     0.3486     0.3697
            0.3910     0.4126     0.4345     0.4568     0.4794
            0.5023     0.5256     0.5492     0.5731     0.5973
            0.6219     0.6467     0.6720     0.6975     0.7234
            0.7496     0.7761     0.8029     0.8301     0.8576
            0.8854     0.9136     0.9421     0.9709     1.0000
Hrad:
            0.0139     0.0278     0.0417     0.0556     0.0695
            0.0834     0.0973     0.1111     0.1250     0.1389
            0.1528     0.1667     0.1806     0.1945     0.2084
            0.2360     0.2635     0.2910     0.3184     0.3458
            0.3732     0.4005     0.4277     0.4549     0.4821
            0.5093     0.5359     0.5619     0.5873     0.6120
            0.6362     0.6598     0.6828     0.7053     0.7272
            0.7486     0.7695     0.7899     0.8098     0.8292
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            0.8482     0.8667     0.8848     0.9024     0.9197
            0.9365     0.9529     0.9690     0.9847     1.0000
Width:
            0.0481     0.0961     0.1442     0.1923     0.2404
            0.2884     0.3365     0.3846     0.4326     0.4807
            0.5288     0.5768     0.6249     0.6730     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7322     0.7434     0.7545     0.7657     0.7768
            0.7880     0.7992     0.8103     0.8215     0.8326
            0.8438     0.8549     0.8661     0.8773     0.8884
            0.8996     0.9107     0.9219     0.9331     0.9442
            0.9554     0.9665     0.9777     0.9888     1.0000

Transect Transect1
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
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            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000


***********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
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Analysis Options
****************
Flow Units ............... CMS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 03/28/2023 00:00:00
Ending Date .............. 03/29/2023 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:10:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 5.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 8
Head Tolerance ........... 0.001500 m
```

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	53.934	60.512
Evaporation Loss	0.000	0.000
Infiltration Loss	36.558	41.016
Surface Runoff	17.110	19.197
Final Storage	0.382	0.429
Continuity Error (%)	-0.215	

Flow Routing Continuity	Volume hectare-m	Volume 10^6 ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	17.102	171.021
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	16.064	160.645
Flooding Loss	0.196	1.964
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.156	1.557
Final Stored Volume	1.033	10.335
Continuity Error (%)	-0.212	

****
Highest Continuity Errors
****
Node MJ105 (36.50%)
Node MJ52 (33.59%)
Node CBMH4_ON (27.73%)
Node MJ118 (27.04%)
Node MJ124 (15.78%)

****

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  Time-Step Critical Elements
  ***************************
  Link C_dummy (88.71%)
  Link C668 (2.17%)
  Link C702 (1.90%)


  *******************************
  Highest Flow Instability Indexes
  *******************************
  Link OL5 (27)
  Link C211 (26)
  Link OL38 (10)
  Link C674 (10)
  Link C713 (9)


  ************************
  Routing Time Step Summary
  ************************
  Minimum Time Step           :     0.50 sec
  Average Time Step           :     1.80 sec
  Maximum Time Step           :     5.00 sec
  Percent in Steady State     :    -0.00
  Average Iterations per Step :     3.28
  Percent Not Converging      :    20.12
  Time Step Frequencies       :
      5.000 -  3.155 sec      :    10.27 %
      3.155 -  1.991 sec      :    18.27 %
      1.991 -  1.256 sec      :    41.07 %
      1.256 -  0.792 sec      :    16.00 %
      0.792 -  0.500 sec      :    14.39 %


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------------------------
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                             Total      Total      Total      Total     Imperv       Perv      Total       Total
Peak  Runoff
```

Subcatchment	Precip mm	Runon mm	Evap mm	Infil mm	Runoff mm	Runoff mm	Runoff mm	Runoff 10^6 ltr	Runoff CMS	Coeff
Rural_1	60.51	0.00	0.00	35.02	23.64	1.35	24.99	1.73	1.08	0.413
Rural_10	60.51	0.00	0.00	35.31	23.65	1.04	24.69	8.23	5.03	0.408
Rural_11	60.51	0.00	0.00	34.31	23.61	2.14	25.75	0.12	0.08	0.426
Rural_12	60.51	0.00	0.00	35.31	23.65	1.04	24.69	5.49	3.35	0.408
Rural_13	60.51	0.00	0.00	35.31	23.65	1.04	24.69	5.59	3.41	0.408
Rural_14	60.51	0.00	0.00	35.31	23.65	1.04	24.69	4.20	2.57	0.408
Rural_15	60.51	0.00	0.00	35.31	23.65	1.04	24.69	4.77	2.91	0.408
Rural_16	60.51	0.00	0.00	35.31	23.65	1.04	24.69	6.51	3.97	0.408
Rural_16-2_1	60.51	0.00	0.00	35.02	23.64	1.35	24.99	1.54	0.96	0.413
Rural_16-2_2	60.51	0.00	0.00	35.02	23.64	1.35	24.99	1.85	1.15	0.413
Rural_17	60.51	0.00	0.00	34.31	23.61	2.14	25.75	0.71	0.46	0.426
Rural_17_1	60.51	0.00	0.00	34.31	23.61	2.14	25.75	0.73	0.47	0.426
Rural_17_2	60.51	0.00	0.00	35.31	23.65	1.04	24.69	3.75	2.29	0.408
Rural_17_4	60.51	0.00	0.00	55.14	4.13	1.18	5.31	0.72	0.41	0.088
Rural_18	60.51	0.00	0.00	58.96	0.00	1.61	1.61	0.17	0.09	0.027
Rural_19	60.51	0.00	0.00	59.35	0.00	1.20	1.20	0.68	0.34	0.020
Rural_2	60.51	0.00	0.00	35.02	23.64	1.35	24.99	4.83	3.01	0.413
Rural_20	60.51	0.00	0.00	58.96	0.00	1.61	1.61	0.39	0.21	0.027
Rural_21	60.51	0.00	0.00	59.35	0.00	1.20	1.20	1.16	0.59	0.020

Rural_22	60.51	0.00	0.00	55.14	4.13	1.18	5.31	2.23
1.28	0.088							
Rural_23	60.51	0.00	0.00	49.72	9.45	1.15	10.60	5.48
3.33	0.175							
Rural_24	60.51	0.00	0.00	34.89	23.02	2.16	25.18	1.93
1.24	0.416							
Rural_25	60.51	0.00	0.00	52.13	7.08	1.16	8.24	3.29
1.97	0.136							
Rural_26	60.51	0.00	0.00	59.35	0.00	1.20	1.20	0.39
0.19	0.020							
Rural_27	60.51	0.00	0.00	35.02	23.64	1.35	24.99	2.25
1.40	0.413							
Rural_29	60.51	0.00	0.00	35.31	23.65	1.04	24.69	4.21
2.57	0.408							
Rural_3	60.51	0.00	0.00	35.02	23.64	1.35	24.99	1.82
1.13	0.413							
Rural_4	60.51	0.00	0.00	35.31	23.65	1.04	24.69	6.69
4.09	0.408							
Rural_5	60.51	0.00	0.00	35.02	23.64	1.35	24.99	2.81
1.75	0.413							
Rural_6	60.51	0.00	0.00	35.02	23.64	1.35	24.99	3.45
2.15	0.413							
Rural_7	60.51	0.00	0.00	35.31	23.65	1.04	24.69	4.27
2.61	0.408							
Rural_8	60.51	0.00	0.00	35.31	23.65	1.04	24.69	3.15
1.92	0.408							
Rural_9	60.51	0.00	0.00	35.31	23.65	1.04	24.69	5.58
3.41	0.408							
UC1	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.42
0.21	0.528							
UC10	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.12
0.07	0.731							
UC100	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC11	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.55
0.35	0.731							
UC111	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.02	0.731							
UC112	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.31
0.20	0.731							
UC113	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.26
0.16	0.731							
UC114	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08
0.05	0.731							

UC115	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.08
0.04	0.528							
UC116	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.25
0.16	0.731							
UC117	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11	0.731							
UC118	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.09
0.06	0.731							
UC119	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.14
0.09	0.731							
UC12	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.40
0.25	0.731							
UC120	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.63
0.40	0.731							
UC121	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.10
0.05	0.557							
UC122	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.13
0.08	0.731							
UC123	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC124	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.11
0.07	0.731							
UC125	60.51	0.00	0.00	28.86	14.78	16.59	31.37	0.10
0.04	0.518							
UC126	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.02	0.731							
UC127	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.11	0.731							
UC128	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01
0.01	0.731							
UC129	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							
UC13	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.49
0.31	0.731							
UC130	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.06
0.03	0.557							
UC131	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC132	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC133	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.08
0.04	0.528							
UC134	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							

UC135	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.11
0.06	0.528							
UC136	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01
0.01	0.731							
UC137	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.05
0.03	0.557							
UC138	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.07
0.03	0.557							
UC139	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.02
0.01	0.557							
UC14	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20
0.13	0.731							
UC140	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.04
0.02	0.557							
UC141	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.09
0.05	0.557							
UC142	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.04
0.02	0.557							
UC143	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.20
0.10	0.557							
UC144	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.12
0.06	0.557							
UC145	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.13
0.07	0.557							
UC146	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.15
0.08	0.557							
UC147	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.05
0.03	0.557							
UC148	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.06
0.03	0.557							
UC149	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.10
0.05	0.557							
UC15	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731							
UC150	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.20
0.10	0.528							
UC151	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.07	0.731							
UC152	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC153	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.21
0.13	0.731							
UC154	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.29
0.18	0.731							

UC155	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08
0.05	0.731							
UC156	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.24
0.15	0.731							
UC157	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20
0.13	0.731							
UC158	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.19
0.08	0.439							
UC159	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC16	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.22
0.14	0.731							
UC160	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.85
0.54	0.731							
UC161	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.26
0.10	0.439							
UC162	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16
0.10	0.731							
UC163	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC164	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15
0.10	0.731							
UC165	60.51	0.00	0.00	22.91	20.66	16.60	37.26	1.11
0.63	0.616							
UC166	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.14
0.05	0.439							
UC167	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.27
0.17	0.731							
UC168	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC169	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.77
0.48	0.731							
UC17	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.36
0.23	0.731							
UC170	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.40
0.16	0.439							
UC171	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.53
0.34	0.731							
UC172	60.51	0.00	0.00	30.32	8.85	21.30	30.15	0.61
0.28	0.498							
UC173	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.96
0.61	0.731							
UC174	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.69
0.43	0.731							

UC175	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC176	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731							
UC177	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.36
0.23	0.731							
UC178	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.35
0.22	0.731							
UC179	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.19
0.12	0.731							
UC18	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.30
0.19	0.731							
UC180	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.42
0.89	0.731							
UC181	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.34
0.21	0.731							
UC182	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.49
0.31	0.731							
UC183	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.03
0.65	0.731							
UC184	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC185	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC186	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							
UC187	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC188	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.55
0.35	0.731							
UC189	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.79
0.50	0.731							
UC19	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.33
0.21	0.731							
UC190	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11	0.731							
UC191	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.02	0.731							
UC192	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.05
0.66	0.731							
UC193	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.28
0.18	0.731							
UC194	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.76
0.48	0.731							

UC195	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.50
0.32 0.731								
UC196	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.27
0.17 0.731								
UC197	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.34
0.21 0.731								
UC198	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.34
0.21 0.731								
UC199	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06 0.731								
UC2	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.30
0.19 0.731								
UC20	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.40
0.25 0.731								
UC200	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.11 0.731								
UC201	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.46
0.29 0.731								
UC202	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.39
0.24 0.731								
UC203	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.29
0.18 0.731								
UC204	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.35
0.22 0.731								
UC205	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11 0.731								
UC206	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.00
0.63 0.731								
UC207	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.43
0.27 0.731								
UC208	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.25
0.16 0.731								
UC209	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11 0.731								
UC21	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.12 0.731								
UC210	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.68
0.43 0.731								
UC211	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.23
0.78 0.731								
UC212	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.24
0.78 0.731								
UC213	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.97
1.24 0.731								

UC214	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.27
0.17 0.731								
UC215	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.56
0.35 0.731								
UC216	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.88
0.55 0.731								
UC217	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.87
0.54 0.731								
UC218	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.53
0.33 0.731								
UC219	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04 0.731								
UC22	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11 0.731								
UC220	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01
0.01 0.731								
UC221	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04 0.731								
UC222	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.14
0.09 0.731								
UC223	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.12
0.07 0.731								
UC224	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16
0.10 0.731								
UC225	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.32
0.20 0.731								
UC226	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.44
0.17 0.439								
UC227	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.91
0.36 0.439								
UC228	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.45
0.17 0.439								
UC229	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01
0.01 0.731								
UC23	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15
0.09 0.731								
UC24	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15
0.10 0.731								
UC25	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.14
0.09 0.731								
UC26	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08
0.05 0.731								
UC27	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04 0.731								

UC28	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06 0.731								
UC29	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.11
0.07 0.731								
UC3	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.05 0.731								
UC30	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.02
0.01 0.528								
UC300	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.67
0.42 0.731								
UC301	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.93
1.21 0.731								
UC302	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.21
0.13 0.731								
UC303	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.25
0.15 0.731								
UC304	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.95
0.59 0.731								
UC305	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.95
0.60 0.731								
UC306	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.18
0.07 0.439								
UC307	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.22
0.14 0.731								
UC308	60.51	0.00	0.00	16.74	32.51	10.55	43.05	1.18
0.59 0.711								
UC309	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20
0.13 0.731								
UC31	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.11
0.05 0.528								
UC310	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.32
0.20 0.731								
UC311	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.98
1.25 0.731								
UC312	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.74
0.46 0.731								
UC313	60.51	0.00	0.00	22.91	20.66	16.60	37.26	2.65
1.50 0.616								
UC314	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.07 0.731								
UC315	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.42
0.26 0.731								
UC316	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.29
0.18 0.731								

UC317	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.26
0.16 0.731								
UC318	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.20
0.10 0.528								
UC319	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.04
0.65 0.731								
UC32	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.04
0.02 0.528								
UC33	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.26
0.13 0.528								
UC34	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.20
0.10 0.528								
UC35	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.02 0.731								
UC36	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01 0.731								
UC37	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.03
0.02 0.528								
UC38	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.13
0.06 0.528								
UC39	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04 0.731								
UC4	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.11 0.731								
UC40	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.03 0.731								
UC41	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01 0.731								
UC42	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.03 0.731								
UC43	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02 0.731								
UC44	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02 0.731								
UC45	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.05 0.731								
UC46	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04 0.731								
UC47	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04 0.731								
UC48	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08
0.05 0.731								
UC49	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.12 0.731								

UC5	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.22
0.14	0.731							
UC50	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.13
0.08	0.731							
UC51	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.28
0.18	0.731							
UC52	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.25
0.16	0.731							
UC53	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.35
0.22	0.731							
UC54	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.34
0.21	0.731							
UC55	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.31
0.19	0.731							
UC56	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.11	0.731							
UC57	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16
0.10	0.731							
UC58	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.13
0.08	0.731							
UC59	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731							
UC6	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731							
UC60	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC61	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.12
0.06	0.528							
UC62	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.30
0.19	0.731							
UC63	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC64	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							
UC65	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC66	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC67	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.00
0.00	0.731							
UC68	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.07	0.731							
UC69	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							

UC7	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.13	0.08	0.731
UC70	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02	0.02	0.731
UC71	60.51	0.00	0.00	15.79	32.51	11.58	44.09	0.37	0.22	0.729
UC72	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02	0.02	0.731
UC73	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16	0.10	0.731
UC74	60.51	0.00	0.00	34.60	2.95	23.05	26.00	4.14	1.38	0.430
UC75	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.09	0.06	0.731
UC76	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.14	0.09	0.731
UC77	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.12	0.07	0.731
UC78	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17	0.11	0.731
UC79	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02	0.02	0.731
UC8	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20	0.12	0.731
UC80	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01	0.01	0.731
UC81	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.11	0.07	0.731
UC82	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20	0.13	0.731
UC83	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08	0.05	0.731
UC84	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.36	0.18	0.528
UC85	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18	0.12	0.731
UC86	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15	0.09	0.731
UC87	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06	0.04	0.731
UC88	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07	0.05	0.731
UC89	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16	0.10	0.731

UC9		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.21
0.13	0.731								
UC90		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731								
UC91		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731								
UC92		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.02	0.731								
UC93		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.09
0.06	0.731								
UC94		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.05	0.731								
UC95		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.03	0.731								
UC96		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731								
UC97		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731								
UC98		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731								
UC99		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15
0.09	0.731								

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Node Depth Summary
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Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
CB15	JUNCTION	0.05	0.46	182.16	0 09:05	0.25
CB16	JUNCTION	0.00	0.00	181.95	0 00:00	0.00
CB17	JUNCTION	0.03	0.49	180.76	0 09:10	0.48
CB18	JUNCTION	0.00	0.00	181.40	0 00:00	0.00
CB19	JUNCTION	0.02	0.66	182.26	0 09:05	0.12
CB20	JUNCTION	0.04	0.81	182.15	0 09:05	0.26
CB21	JUNCTION	0.00	0.04	180.55	0 09:09	0.04
CB22	JUNCTION	0.00	0.00	181.20	0 00:00	0.00
CB23	JUNCTION	0.01	0.10	181.55	0 09:05	0.07

CB26	JUNCTION	0.03	0.19	179.53	0	09:08	0.19
CB27	JUNCTION	0.00	0.00	182.57	0	00:00	0.00
CB29	JUNCTION	0.00	0.00	185.26	0	00:00	0.00
CB30	JUNCTION	0.00	0.02	185.17	0	09:46	0.00
CB30_1	JUNCTION	0.04	1.57	185.50	0	09:26	0.71
CB31	JUNCTION	0.08	1.13	184.62	0	09:24	1.13
CB32	JUNCTION	0.10	1.22	184.64	0	09:24	1.21
CB33	JUNCTION	0.17	1.39	184.73	0	09:24	1.30
CB34	JUNCTION	0.00	0.00	184.40	0	00:00	0.00
CB35	JUNCTION	0.00	0.00	184.20	0	00:00	0.00
CB41	JUNCTION	0.09	0.85	182.62	0	09:19	0.85
CB42	JUNCTION	0.17	1.50	182.65	0	09:27	1.48
CB-58	JUNCTION	0.15	1.85	182.28	0	09:07	0.89
CBMH_1	JUNCTION	0.25	1.47	183.00	0	08:53	1.47
CBMH_40	JUNCTION	0.00	0.00	182.75	0	00:00	0.00
CBMH_41	JUNCTION	0.00	0.00	182.52	0	00:00	0.00
CBMH_42	JUNCTION	0.00	0.00	182.82	0	00:00	0.00
CBMH_44	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
CBMH_46	JUNCTION	0.06	0.33	182.33	0	09:13	0.32
CBMH_62	JUNCTION	0.00	0.06	182.69	0	09:08	0.05
CBMH1	JUNCTION	0.00	0.05	182.60	0	09:10	0.05
CBMH1_ON	JUNCTION	0.00	0.00	184.86	0	00:00	0.00
CBMH10_Main	JUNCTION	0.03	0.09	179.50	0	09:09	0.09
CBMH2	JUNCTION	0.02	0.04	180.77	0	09:06	0.04
CBMH2_ON	JUNCTION	0.00	0.00	184.54	0	00:00	0.00
CBMH3_ON	JUNCTION	0.00	0.00	184.25	0	00:00	0.00
CBMH4_ON	JUNCTION	0.13	0.25	184.24	0	09:08	0.24
CBMH5	JUNCTION	0.04	0.16	179.96	0	09:12	0.16
CBMH5_ON	JUNCTION	0.07	0.19	184.24	0	09:09	0.18
CBMH6_ON	JUNCTION	0.06	0.17	184.06	0	09:10	0.17
CBMH7	JUNCTION	0.00	0.00	182.38	0	00:00	0.00
CBMH7_ON	JUNCTION	0.04	0.13	183.84	0	09:11	0.13
CBMH8_ON	JUNCTION	0.06	0.20	183.46	0	09:09	0.20
CBMH9_ON	JUNCTION	0.02	0.07	182.80	0	09:09	0.07
DCB72	JUNCTION	0.00	0.00	180.43	0	00:00	0.00
DICBMH42	JUNCTION	0.75	1.02	177.67	0	09:54	1.02
J1	JUNCTION	0.15	0.59	183.59	0	09:08	0.59
J101	JUNCTION	0.29	1.30	182.07	0	08:59	1.30
J102	JUNCTION	0.39	1.74	182.04	0	09:02	1.74
J105	JUNCTION	0.00	0.00	183.98	0	00:00	0.00
J106	JUNCTION	0.00	0.00	183.62	0	00:00	0.00

J110	JUNCTION	0.21	1.37	182.19	0	09:13	1.34
J113	JUNCTION	0.19	1.25	182.17	0	08:59	1.25
J115	JUNCTION	0.00	0.00	183.07	0	00:00	0.00
J116	JUNCTION	0.00	0.00	176.45	0	00:00	0.00
J12	JUNCTION	0.02	0.05	183.38	0	09:08	0.05
J125	JUNCTION	0.89	1.62	180.01	0	09:17	1.59
J127	JUNCTION	0.04	0.25	180.96	0	09:12	0.24
J128	JUNCTION	0.08	0.52	181.44	0	09:12	0.49
J15	JUNCTION	0.02	0.07	180.78	0	09:09	0.07
J2	JUNCTION	0.02	0.13	183.00	0	09:15	0.13
J20	JUNCTION	0.02	0.07	179.58	0	09:10	0.07
J24	JUNCTION	0.09	0.35	178.11	0	09:13	0.34
J3	JUNCTION	0.04	0.22	181.80	0	09:20	0.22
J30	JUNCTION	0.00	0.00	186.43	0	00:00	0.00
J31	JUNCTION	0.00	0.00	185.91	0	00:00	0.00
J34	JUNCTION	0.00	0.00	181.75	0	00:00	0.00
J35	JUNCTION	0.00	0.00	181.98	0	00:00	0.00
J36	JUNCTION	0.00	0.00	179.96	0	00:00	0.00
J38	JUNCTION	0.00	0.00	180.00	0	00:00	0.00
J4	JUNCTION	0.00	0.00	185.20	0	00:00	0.00
J42	JUNCTION	0.00	0.00	179.01	0	00:00	0.00
J43	JUNCTION	0.00	0.00	178.80	0	00:00	0.00
J47	JUNCTION	0.00	0.02	180.01	0	09:17	0.00
J48	JUNCTION	0.00	0.00	180.60	0	00:00	0.00
J49	JUNCTION	0.02	0.24	181.16	0	09:16	0.23
J5	JUNCTION	0.02	0.06	184.91	0	09:08	0.06
J50	JUNCTION	0.00	0.00	178.47	0	00:00	0.00
J52	JUNCTION	0.12	0.44	179.12	0	09:12	0.44
J55	JUNCTION	0.11	0.41	178.91	0	09:13	0.41
J6	JUNCTION	0.01	0.09	181.32	0	09:22	0.09
J62	JUNCTION	0.11	0.40	178.77	0	09:13	0.40
J66	JUNCTION	0.00	0.00	176.80	0	00:00	0.00
J67	JUNCTION	0.00	0.00	176.71	0	00:00	0.00
J7	JUNCTION	0.03	0.17	182.56	0	09:10	0.17
J70	JUNCTION	0.06	0.19	176.11	0	09:09	0.19
J78	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J8	JUNCTION	0.01	0.09	184.48	0	09:18	0.08
J83	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J91	JUNCTION	0.88	1.39	179.76	0	09:17	1.37
J93	JUNCTION	0.03	0.09	182.24	0	09:13	0.08
J95	JUNCTION	0.02	0.08	182.46	0	09:13	0.07

J98	JUNCTION	0.12	0.86	182.04	0	09:10	0.86
MH_1	JUNCTION	0.09	0.27	181.51	0	08:54	0.27
MH_11	JUNCTION	0.03	0.19	183.31	0	09:05	0.18
MH_14	JUNCTION	0.05	0.35	184.10	0	09:08	0.35
MH_15	JUNCTION	0.04	0.31	183.05	0	09:07	0.31
MH_16	JUNCTION	0.05	0.34	182.93	0	09:08	0.34
MH_17	JUNCTION	0.04	0.32	182.47	0	09:12	0.31
MH_2	JUNCTION	0.10	0.31	180.91	0	08:54	0.31
MH_27	JUNCTION	0.05	0.35	183.43	0	09:05	0.34
MH_29	JUNCTION	0.00	0.00	183.90	0	00:00	0.00
MH_30	JUNCTION	0.00	0.00	183.08	0	00:00	0.00
MH_34	JUNCTION	0.04	0.31	183.44	0	09:06	0.31
MH_35	JUNCTION	0.04	0.32	183.05	0	09:13	0.29
MH_36	JUNCTION	0.05	0.38	183.01	0	09:13	0.31
MH_37	JUNCTION	0.08	0.70	182.95	0	09:13	0.63
MH_38	JUNCTION	0.10	0.74	182.76	0	09:13	0.70
MH_39	JUNCTION	0.27	0.78	182.46	0	09:13	0.77
MH_43	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MH_45	JUNCTION	0.02	0.20	182.33	0	09:14	0.18
MH_47	JUNCTION	0.36	0.77	182.33	0	09:13	0.76
MH_56	JUNCTION	0.09	0.83	184.00	0	09:03	0.70
MH_57	JUNCTION	0.07	0.26	183.10	0	09:08	0.24
MH_58	JUNCTION	0.07	0.31	182.99	0	09:08	0.27
MH_59	JUNCTION	0.00	0.00	183.44	0	00:00	0.00
MH_61	JUNCTION	0.00	0.00	183.17	0	00:00	0.00
MH_63	JUNCTION	0.07	0.24	182.69	0	09:15	0.23
MH_64	JUNCTION	0.07	0.23	182.44	0	09:15	0.23
MH_65	JUNCTION	0.14	0.36	182.23	0	10:29	0.36
MH_66	JUNCTION	0.16	0.41	182.23	0	10:30	0.41
MH_67	JUNCTION	0.51	0.90	182.23	0	10:31	0.90
MH_68	JUNCTION	0.67	1.11	182.23	0	10:31	1.10
MH_69	JUNCTION	0.12	0.25	180.51	0	10:32	0.25
MH_70	JUNCTION	0.12	0.25	179.91	0	10:32	0.25
MH1	JUNCTION	0.03	2.30	183.41	0	09:08	0.94
MH1_Main	JUNCTION	0.06	1.59	185.44	0	09:51	0.79
MH10	JUNCTION	0.28	1.24	180.74	0	09:09	1.24
MH10__S	JUNCTION	0.00	0.02	183.17	0	09:09	0.02
MH10_Main	JUNCTION	0.13	0.40	177.18	0	09:14	0.39
MH11	JUNCTION	0.19	1.25	180.55	0	09:09	1.25
MH11__S	JUNCTION	0.12	0.62	183.39	0	09:07	0.37
MH11_Main	JUNCTION	0.07	0.20	176.54	0	09:14	0.20

MH12	JUNCTION	0.02	0.19	181.39	0	09:05	0.13
MH13	JUNCTION	0.27	1.30	180.10	0	09:10	1.30
MH13_Main	JUNCTION	0.03	0.14	181.40	0	09:10	0.14
MH13_Main_	JUNCTION	0.07	0.42	181.17	0	09:16	0.41
MH14	JUNCTION	0.13	1.29	179.64	0	09:10	1.29
MH14_Main	JUNCTION	0.10	0.62	181.17	0	09:16	0.60
MH15	JUNCTION	0.13	1.12	179.32	0	09:10	1.11
MH15_Main	JUNCTION	0.11	0.67	181.16	0	09:16	0.66
MH16	JUNCTION	0.11	0.81	178.81	0	09:10	0.81
MH2	JUNCTION	0.09	2.40	183.40	0	09:08	1.05
MH2_Main	JUNCTION	0.16	1.52	184.87	0	09:24	1.29
MH2_S	JUNCTION	0.03	0.25	184.20	0	09:08	0.24
MH21	JUNCTION	0.11	1.98	183.10	0	09:16	0.71
MH21_S	JUNCTION	0.02	0.16	182.96	0	09:26	0.16
MH22	JUNCTION	0.21	2.21	182.90	0	09:07	1.08
MH23	JUNCTION	0.13	2.04	182.80	0	09:07	0.99
MH24	JUNCTION	0.17	1.78	182.37	0	09:07	1.15
MH25	JUNCTION	0.11	0.58	180.68	0	09:16	0.50
MH25-1	JUNCTION	0.14	0.69	180.95	0	09:16	0.62
MH26	JUNCTION	0.06	0.26	180.02	0	09:16	0.25
MH3	JUNCTION	0.08	1.97	182.89	0	09:08	1.04
MH3_Main	JUNCTION	0.14	0.92	183.74	0	09:34	0.91
MH3_S	JUNCTION	0.01	0.09	184.20	0	09:09	0.09
MH30	JUNCTION	0.07	0.33	179.76	0	09:10	0.33
MH31	JUNCTION	0.07	0.35	179.68	0	09:11	0.34
MH32	JUNCTION	0.07	0.40	179.61	0	09:11	0.40
MH33	JUNCTION	0.12	0.45	179.57	0	09:11	0.44
MH34	JUNCTION	0.04	0.16	179.22	0	09:05	0.15
MH34_S	JUNCTION	0.01	0.08	181.56	0	09:05	0.08
MH35	JUNCTION	0.05	0.17	179.12	0	09:06	0.16
MH36	JUNCTION	0.04	0.22	179.05	0	09:12	0.21
MH36_S	JUNCTION	0.01	0.08	182.05	0	09:14	0.07
MH37	JUNCTION	0.00	0.00	179.80	0	00:00	0.00
MH37_S	JUNCTION	0.00	0.00	182.34	0	00:00	0.00
MH38	JUNCTION	0.00	0.00	179.55	0	00:00	0.00
MH39	JUNCTION	0.00	0.02	179.44	0	09:21	0.02
MH4	JUNCTION	0.08	1.09	181.79	0	09:10	1.07
MH4_Main	JUNCTION	0.20	1.43	183.09	0	09:33	1.41
MH40	JUNCTION	0.09	0.47	179.30	0	09:11	0.46
MH41	JUNCTION	0.07	0.36	179.04	0	09:12	0.35
MH41_S	JUNCTION	0.11	0.20	182.06	0	09:12	0.20

MH42	JUNCTION	0.09	0.21	177.66	0	09:54	0.21
MH43	JUNCTION	0.09	0.21	177.49	0	09:55	0.21
MH5	JUNCTION	0.04	0.29	182.74	0	09:08	0.28
MH5_Main	JUNCTION	0.31	1.93	182.68	0	09:27	1.92
MH6	JUNCTION	0.04	0.28	182.60	0	09:09	0.28
MH6_Main	JUNCTION	0.29	0.92	181.16	0	09:18	0.90
MH7	JUNCTION	0.04	0.29	182.39	0	09:11	0.29
MH7_Main	JUNCTION	0.07	0.19	180.44	0	09:18	0.19
MH8	JUNCTION	0.08	1.16	181.67	0	09:10	1.14
MH8_Main	JUNCTION	0.38	1.76	179.32	0	09:18	1.75
MH8_S	JUNCTION	0.02	0.08	184.04	0	09:06	0.07
MH9	JUNCTION	0.09	1.24	181.51	0	09:10	1.22
MH9__S	JUNCTION	0.02	0.26	183.48	0	09:07	0.21
MH9_Main	JUNCTION	0.12	0.37	177.98	0	09:18	0.37
MJ_	JUNCTION	0.00	0.00	182.63	0	00:00	0.00
MJ1	JUNCTION	0.05	0.16	177.63	0	09:23	0.16
MJ10	JUNCTION	0.00	0.03	183.53	0	09:07	0.03
MJ100	JUNCTION	0.03	0.12	182.38	0	09:07	0.11
MJ101	JUNCTION	0.01	0.09	183.78	0	09:06	0.08
MJ102	JUNCTION	0.30	0.42	183.29	1	00:00	0.42
MJ103	JUNCTION	0.03	0.08	183.09	0	09:07	0.08
MJ104	JUNCTION	0.01	0.06	184.26	0	09:13	0.06
MJ105	JUNCTION	0.38	1.87	186.34	0	09:51	0.54
MJ106	JUNCTION	0.00	0.00	183.57	0	00:00	0.00
MJ107	JUNCTION	0.01	0.07	184.23	0	09:18	0.07
MJ108	JUNCTION	0.01	0.05	185.73	0	09:07	0.05
MJ109	JUNCTION	0.00	0.00	184.90	0	00:00	0.00
MJ11	JUNCTION	0.00	0.00	178.72	0	00:00	0.00
MJ110	JUNCTION	0.10	0.18	182.21	0	09:08	0.18
MJ111	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MJ112	JUNCTION	0.02	0.13	180.76	0	09:10	0.13
MJ113	JUNCTION	0.01	0.03	184.27	0	09:07	0.03
MJ114	JUNCTION	0.00	0.02	184.56	0	09:14	0.02
MJ115	JUNCTION	0.01	0.05	185.47	0	09:05	0.04
MJ116	JUNCTION	0.03	0.11	182.09	0	09:07	0.11
MJ117	JUNCTION	0.00	0.01	185.55	0	09:09	0.01
MJ118	JUNCTION	0.19	0.30	185.01	0	09:34	0.30
MJ119	JUNCTION	0.28	0.42	180.63	0	09:16	0.41
MJ12	JUNCTION	0.03	0.12	179.13	0	09:06	0.12
MJ120	JUNCTION	0.26	0.34	184.26	0	10:04	0.34
MJ121	JUNCTION	0.00	0.00	186.66	0	00:00	0.00

MJ122	JUNCTION	0.02	0.09	184.34	0	09:07	0.09
MJ123	JUNCTION	0.00	0.00	187.14	0	00:00	0.00
MJ124	JUNCTION	0.13	0.25	180.63	0	09:16	0.25
MJ125	JUNCTION	0.01	0.08	186.19	0	09:06	0.07
MJ126	JUNCTION	0.00	0.00	185.15	0	00:00	0.00
MJ127	JUNCTION	0.01	0.06	185.92	0	09:06	0.05
MJ128	JUNCTION	0.02	0.10	182.19	0	09:07	0.10
MJ129	JUNCTION	0.06	0.29	182.07	0	09:19	0.29
MJ13	JUNCTION	0.01	0.08	178.68	0	09:07	0.08
MJ130	JUNCTION	0.02	0.13	186.20	0	09:06	0.12
MJ131	JUNCTION	0.01	0.04	184.29	0	09:05	0.03
MJ132	JUNCTION	0.06	0.33	182.07	0	09:18	0.33
MJ133	JUNCTION	0.00	0.00	186.56	0	00:00	0.00
MJ134	JUNCTION	0.09	0.36	181.75	0	09:39	0.36
MJ135	JUNCTION	0.01	0.08	183.33	0	09:05	0.07
MJ136	JUNCTION	0.01	0.04	183.40	0	09:09	0.04
MJ137	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
MJ138	JUNCTION	0.00	0.00	187.83	0	00:00	0.00
MJ139	JUNCTION	0.01	0.06	181.99	0	09:05	0.04
MJ14	JUNCTION	0.01	0.06	181.55	0	09:08	0.06
MJ140	JUNCTION	0.00	0.00	182.18	0	09:15	0.00
MJ142	JUNCTION	0.01	0.11	182.73	0	09:08	0.10
MJ143	JUNCTION	0.01	0.04	184.20	0	09:06	0.04
MJ144	JUNCTION	0.00	0.00	182.85	0	00:00	0.00
MJ145	JUNCTION	0.02	0.12	182.65	0	09:09	0.12
MJ146	JUNCTION	0.08	2.00	184.36	0	09:10	0.60
MJ147	JUNCTION	0.03	0.14	183.15	0	09:12	0.14
MJ148	JUNCTION	0.04	0.17	183.18	0	09:12	0.17
MJ149	JUNCTION	0.01	0.20	184.20	0	09:08	0.19
MJ15	JUNCTION	0.01	0.06	188.59	0	09:08	0.06
MJ150	JUNCTION	0.00	0.00	184.44	0	00:00	0.00
MJ151	JUNCTION	0.02	0.13	183.51	0	09:07	0.13
MJ152	JUNCTION	0.03	0.14	183.84	0	09:09	0.14
MJ153	JUNCTION	0.02	0.10	184.42	0	09:09	0.10
MJ154	JUNCTION	0.04	0.19	184.66	0	09:14	0.18
MJ155	JUNCTION	0.01	0.09	185.27	0	09:13	0.09
MJ156	JUNCTION	0.00	0.00	185.85	0	00:00	0.00
MJ157	JUNCTION	0.00	0.00	186.21	0	00:00	0.00
MJ158	JUNCTION	0.00	0.00	183.48	0	00:00	0.00
MJ16	JUNCTION	0.00	0.02	178.67	0	09:18	0.02
MJ17	JUNCTION	0.01	0.04	181.87	0	09:06	0.03

MJ18	JUNCTION	0.02	0.08	183.44	0	09:11	0.08
MJ19	JUNCTION	0.10	0.15	181.14	0	09:07	0.15
MJ2	JUNCTION	0.02	0.08	177.83	0	09:11	0.08
MJ20	JUNCTION	0.01	0.04	183.32	0	09:09	0.04
MJ21	JUNCTION	0.01	0.08	179.00	0	09:08	0.08
MJ22	JUNCTION	0.22	0.37	186.53	0	09:08	0.36
MJ23	JUNCTION	0.01	0.04	179.31	0	09:06	0.04
MJ24	JUNCTION	0.06	0.38	182.19	0	09:26	0.38
MJ25	JUNCTION	0.03	0.11	183.56	0	09:08	0.11
MJ26	JUNCTION	0.03	0.10	182.98	0	09:11	0.10
MJ27	JUNCTION	0.04	0.12	179.94	0	09:24	0.11
MJ28	JUNCTION	0.00	0.00	183.09	0	00:00	0.00
MJ29	JUNCTION	0.24	0.33	181.37	1	00:00	0.33
MJ3	JUNCTION	0.04	0.14	177.53	0	09:09	0.14
MJ30	JUNCTION	0.02	0.11	181.46	0	09:10	0.11
MJ31	JUNCTION	0.01	0.07	181.14	0	09:11	0.07
MJ32	JUNCTION	0.01	0.05	181.99	0	09:09	0.05
MJ33	JUNCTION	0.01	0.05	181.74	0	09:15	0.05
MJ34	JUNCTION	0.01	0.05	179.75	0	09:06	0.05
MJ35	JUNCTION	0.05	0.15	180.31	0	09:23	0.15
MJ36	JUNCTION	0.03	0.14	182.81	0	09:09	0.14
MJ37	JUNCTION	0.01	0.04	178.68	0	09:14	0.04
MJ38	JUNCTION	0.04	0.13	181.80	0	09:12	0.12
MJ39	JUNCTION	0.00	0.00	183.95	0	00:00	0.00
MJ4	JUNCTION	0.00	0.00	179.70	0	00:00	0.00
MJ40	JUNCTION	0.00	0.02	182.94	0	09:20	0.02
MJ41	JUNCTION	0.01	0.07	183.56	0	09:14	0.06
MJ42	JUNCTION	0.04	0.13	180.79	0	09:22	0.13
MJ43	JUNCTION	0.00	0.00	186.65	0	00:00	0.00
MJ44	JUNCTION	0.01	0.04	183.43	0	09:18	0.04
MJ45	JUNCTION	0.00	0.02	184.82	0	09:06	0.02
MJ46	JUNCTION	0.00	0.03	181.59	0	09:07	0.03
MJ47	JUNCTION	0.07	0.12	182.95	0	09:08	0.12
MJ48	JUNCTION	0.10	0.31	176.76	0	09:26	0.31
MJ49	JUNCTION	0.01	0.03	182.93	0	09:15	0.03
MJ5	JUNCTION	0.01	0.09	183.72	0	09:05	0.07
MJ50	JUNCTION	0.12	0.18	182.78	1	00:00	0.18
MJ51	JUNCTION	0.01	0.03	181.07	0	09:07	0.03
MJ52	JUNCTION	0.13	0.19	182.78	1	00:00	0.19
MJ53	JUNCTION	0.00	0.01	182.26	0	09:08	0.01
MJ54	JUNCTION	0.00	0.00	182.45	0	00:00	0.00

MJ55	JUNCTION	0.02	0.09	178.62	0	09:10	0.09
MJ56	JUNCTION	0.00	0.02	182.93	0	09:08	0.02
MJ57	JUNCTION	0.01	0.06	178.89	0	09:09	0.06
MJ58	JUNCTION	0.27	0.36	182.78	1	00:00	0.36
MJ59	JUNCTION	0.23	0.31	182.26	1	00:00	0.31
MJ60	JUNCTION	0.01	0.07	180.08	0	09:08	0.07
MJ61	JUNCTION	0.31	0.42	181.16	1	00:00	0.42
MJ62	JUNCTION	0.00	0.00	183.87	0	00:00	0.00
MJ63	JUNCTION	0.04	0.12	182.35	0	09:21	0.12
MJ64	JUNCTION	0.09	0.18	182.35	0	09:21	0.18
MJ65	JUNCTION	0.01	0.04	182.52	0	09:07	0.04
MJ66	JUNCTION	0.01	0.05	180.34	0	09:09	0.05
MJ67	JUNCTION	0.06	0.18	186.17	0	09:12	0.18
MJ68	JUNCTION	0.00	0.00	184.22	0	00:00	0.00
MJ69	JUNCTION	0.01	0.07	182.36	0	09:07	0.06
MJ7	JUNCTION	0.03	0.12	186.71	0	09:08	0.12
MJ70	JUNCTION	0.01	0.06	183.32	0	09:08	0.06
MJ71	JUNCTION	0.01	0.07	179.08	0	09:07	0.07
MJ72	JUNCTION	0.05	0.17	182.61	0	09:17	0.16
MJ73	JUNCTION	0.01	0.08	182.43	0	09:09	0.08
MJ74	JUNCTION	0.03	0.14	182.79	0	09:11	0.14
MJ75	JUNCTION	0.02	0.08	183.05	0	09:14	0.08
MJ76	JUNCTION	0.01	0.04	183.78	0	09:08	0.04
MJ77	JUNCTION	0.01	0.04	182.40	0	09:07	0.04
MJ78	JUNCTION	0.01	0.05	183.18	0	09:09	0.05
MJ79	JUNCTION	0.02	0.09	182.74	0	09:13	0.09
MJ8	JUNCTION	0.00	0.00	189.00	0	00:00	0.00
MJ80	JUNCTION	0.01	0.06	182.78	0	09:07	0.05
MJ81	JUNCTION	0.02	0.11	183.26	0	09:07	0.10
MJ82	JUNCTION	0.02	0.10	182.79	0	09:13	0.09
MJ83	JUNCTION	0.06	0.18	182.66	0	09:17	0.18
MJ84	JUNCTION	0.01	0.04	185.68	0	09:05	0.03
MJ85	JUNCTION	0.01	0.04	183.93	0	09:08	0.03
MJ86	JUNCTION	0.01	0.05	184.40	0	09:06	0.04
MJ87	JUNCTION	0.07	0.18	183.50	0	09:11	0.18
MJ88	JUNCTION	0.00	0.00	183.05	0	00:00	0.00
MJ89	JUNCTION	0.03	0.11	182.87	0	09:13	0.11
MJ9	JUNCTION	0.02	0.09	178.73	0	09:07	0.09
MJ90	JUNCTION	0.24	0.33	182.00	1	00:00	0.33
MJ91	JUNCTION	0.01	0.03	184.17	0	09:09	0.03
MJ92	JUNCTION	0.02	0.06	186.03	0	09:09	0.06

MJ93	JUNCTION	0.01	0.05	185.01	0	09:05	0.04
MJ94	JUNCTION	0.07	0.10	184.62	1	00:00	0.10
MJ95	JUNCTION	0.03	0.12	181.28	0	09:08	0.12
MJ96	JUNCTION	0.03	0.06	182.97	0	10:17	0.06
MJ97	JUNCTION	0.49	0.64	183.08	0	10:03	0.64
MJ98	JUNCTION	0.03	0.11	183.48	0	09:11	0.11
MJ99	JUNCTION	0.01	0.05	185.42	0	09:09	0.05
OGS-	JUNCTION	0.08	0.25	180.74	0	08:54	0.25
RICE_POND_OUTLET	JUNCTION	0.12	0.24	181.06	0	10:31	0.24
OF10-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF11-M	OUTFALL	0.00	0.00	183.10	0	00:00	0.00
OF12-	OUTFALL	0.02	0.19	179.34	0	09:08	0.19
OF13-	OUTFALL	0.08	0.25	180.56	0	08:54	0.25
OF14-	OUTFALL	0.12	0.25	179.79	0	10:32	0.25
OF15-	OUTFALL	0.00	0.00	177.00	0	00:00	0.00
OF16-	OUTFALL	0.04	0.16	177.16	0	09:12	0.16
OF17-	OUTFALL	0.11	0.66	178.46	0	09:10	0.66
OF18-M	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF19-	OUTFALL	0.03	0.09	178.24	0	09:09	0.09
OF1-M	OUTFALL	0.10	0.31	175.31	0	09:26	0.31
OF20-	OUTFALL	0.08	0.26	179.41	0	09:17	0.26
OF21-	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF22_M	OUTFALL	0.00	0.00	181.25	0	00:00	0.00
OF23-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF24-	OUTFALL	0.06	0.26	177.52	0	09:16	0.25
OF25-	OUTFALL	0.08	0.25	177.84	0	09:00	0.25
OF26-M	OUTFALL	0.02	0.12	178.64	0	09:16	0.11
OF27-1	OUTFALL	0.07	0.17	177.36	0	09:55	0.17
OF27-M	OUTFALL	0.01	0.09	178.95	0	09:22	0.09
OF28-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF29-	OUTFALL	0.00	0.00	178.63	0	00:00	0.00
OF2-M	OUTFALL	0.03	0.12	177.22	0	09:24	0.11
OF2-M-	OUTFALL	0.01	0.06	177.16	0	09:07	0.05
OF3-	OUTFALL	0.07	0.20	176.20	0	09:14	0.20
OF30-M	OUTFALL	0.01	0.06	179.89	0	09:08	0.06
OF31-M	OUTFALL	0.01	0.07	181.45	0	09:11	0.07
OF32-M	OUTFALL	0.03	0.17	185.09	0	09:08	0.17
OF33-	OUTFALL	0.09	0.35	177.38	0	09:13	0.34
OF34-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF35-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF36-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00

OF37-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF38-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF39-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF3-M	OUTFALL	0.01	0.08	177.82	0	09:07	0.08
OF40-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF41-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF42-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF43-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF44-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF45-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF46-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF47-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF48-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF49-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF4-M	OUTFALL	0.01	0.05	175.67	0	09:07	0.05
OF50	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF51	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF52	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF53	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF54	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF55	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF56	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF57	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF58	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF59	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF5-M	OUTFALL	0.01	0.03	182.89	0	09:14	0.03
OF6-	OUTFALL	0.05	0.19	175.69	0	09:09	0.19
OF60	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF61	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF62	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF7-M	OUTFALL	0.02	0.12	177.26	0	09:09	0.12
OF8-	OUTFALL	0.00	0.00	176.00	0	00:00	0.00
OF9-M	OUTFALL	0.03	0.12	179.16	0	09:07	0.11
Gill_RD_Pond	STORAGE	0.86	1.40	178.05	0	09:54	1.40
Rice_Pond	STORAGE	2.49	2.97	182.22	0	10:31	2.97

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent	
CB15	JUNCTION	0.139	0.139	0	09:05	0.221	0.221	0.009	
CB16	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB17	JUNCTION	0.097	0.097	0	09:05	0.154	0.154	0.142	
CB18	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB19	JUNCTION	0.080	0.080	0	09:05	0.127	0.127	0.000	
CB20	JUNCTION	0.116	0.195	0	09:05	0.184	0.31	0.007	
CB21	JUNCTION	0.000	0.002	0	09:09	0	6.13e-05	0.847	
CB22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB23	JUNCTION	0.022	0.022	0	09:05	0.0344	0.0344	0.018	
CB26	JUNCTION	0.000	0.102	0	09:08	0	0.199	0.003	
CB27	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB30	JUNCTION	0.000	0.013	0	09:46	0	7.16e-05	4.734	
CB30_1	JUNCTION	0.000	0.038	0	09:46	0	0.00217	-0.865	
CB31	JUNCTION	0.000	0.089	0	09:54	0	0.0392	-1.300	
CB32	JUNCTION	0.000	0.091	0	09:54	0	0.0449	-0.170	
CB33	JUNCTION	0.000	0.131	0	09:52	0	0.00407	1.483	
CB34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB35	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB41	JUNCTION	0.000	0.045	0	09:28	0	0.0644	-0.005	
CB42	JUNCTION	0.000	0.045	0	09:28	0	0.0664	-0.013	
CB-58	JUNCTION	0.000	0.555	0	09:16	0	2.36	0.052	
CBMH_1	JUNCTION	1.498	1.498	0	09:05	2.65	2.65	0.024	
CBMH_40	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_41	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_44	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_46	JUNCTION	0.000	0.021	0	09:06	0	0.00748	0.116	
CBMH_62	JUNCTION	0.000	0.003	0	09:04	0	0.000751	0.493	
CBMH1	JUNCTION	0.000	0.002	0	09:06	0	0.000235	4.862	
CBMH1_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH10_Main	JUNCTION	0.000	0.101	0	09:09	0	0.559	0.006	
CBMH2	JUNCTION	0.000	0.009	0	09:05	0	0.0746	0.020	
CBMH2_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH3_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr

CBMH4_ON	JUNCTION	0.000	0.005	0	09:04	0	0.00452	38.366	
CBMH5	JUNCTION	0.000	0.196	0	09:12	0	0.947	0.008	
CBMH5_ON	JUNCTION	0.032	0.045	0	09:05	0.051	0.273	0.265	
CBMH6_ON	JUNCTION	0.000	0.041	0	09:09	0	0.268	0.241	
CBMH7	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH7_ON	JUNCTION	0.000	0.040	0	09:10	0	0.267	-0.170	
CBMH8_ON	JUNCTION	0.000	0.103	0	09:08	0	0.56	0.234	
CBMH9_ON	JUNCTION	0.000	0.101	0	09:09	0	0.559	0.002	
DCB72	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
DICBMH42	JUNCTION	0.000	0.088	0	09:54	0	1.22	0.058	
J1	JUNCTION	0.339	0.339	0	09:05	0.608	0.608	-0.011	
J101	JUNCTION	0.000	0.376	0	09:18	0	1.16	3.271	
J102	JUNCTION	0.000	0.359	0	09:12	0	2.16	1.437	
J105	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J110	JUNCTION	0.000	0.026	0	09:13	0	0.148	-2.231	
J113	JUNCTION	0.000	0.029	0	09:18	0	0.155	1.328	
J115	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J116	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J12	JUNCTION	0.000	0.017	0	09:08	0	0.118	0.025	
J125	JUNCTION	0.000	0.506	0	09:17	0	3.78	0.212	
J127	JUNCTION	0.102	0.212	0	09:07	0.163	0.753	0.015	
J128	JUNCTION	0.000	0.164	0	09:12	0	0.591	0.010	
J15	JUNCTION	0.000	0.017	0	09:08	0	0.118	0.046	
J2	JUNCTION	0.000	0.121	0	09:11	0	0.346	0.119	
J20	JUNCTION	0.000	0.017	0	09:09	0	0.118	0.149	
J24	JUNCTION	0.000	0.487	0	09:13	0	2.6	0.011	
J3	JUNCTION	0.000	0.118	0	09:15	0	0.346	0.551	
J30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J31	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J35	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J36	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J38	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J47	JUNCTION	0.000	0.000	0	09:13	0	2.96e-05	0.207	
J48	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J49	JUNCTION	0.000	0.005	0	09:09	0	0.000466	0.087	
J5	JUNCTION	0.000	0.017	0	09:08	0	0.118	0.044	

J50	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J52	JUNCTION	0.000	0.316	0	09:12	0	1.83	0.036	
J55	JUNCTION	0.000	0.316	0	09:12	0	1.83	-0.001	
J6	JUNCTION	0.000	0.109	0	09:21	0	0.344	0.134	
J62	JUNCTION	0.000	0.316	0	09:13	0	1.83	0.010	
J66	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J67	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J7	JUNCTION	0.000	0.116	0	09:09	0	0.262	0.150	
J70	JUNCTION	0.000	0.082	0	09:09	0	0.532	0.017	
J78	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J8	JUNCTION	0.000	0.328	0	09:16	0	0.748	0.623	
J83	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J91	JUNCTION	0.000	0.506	0	09:17	0	3.77	0.079	
J93	JUNCTION	0.000	0.017	0	09:13	0	0.117	0.105	
J95	JUNCTION	0.000	0.017	0	09:13	0	0.117	0.020	
J98	JUNCTION	0.000	0.030	0	09:03	0	0.117	-1.454	
MH_1	JUNCTION	0.000	0.168	0	09:38	0	1.44	0.026	
MH_11	JUNCTION	0.076	0.076	0	09:05	0.194	0.194	0.085	
MH_14	JUNCTION	0.175	0.175	0	09:05	0.45	0.45	0.011	
MH_15	JUNCTION	0.000	0.245	0	09:07	0	0.643	-0.024	
MH_16	JUNCTION	0.000	0.245	0	09:08	0	0.644	-0.008	
MH_17	JUNCTION	0.000	0.245	0	09:08	0	0.644	0.201	
MH_2	JUNCTION	0.000	0.168	0	08:54	0	1.44	0.008	
MH_27	JUNCTION	0.355	0.355	0	09:05	0.913	0.913	0.267	
MH_29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_34	JUNCTION	0.170	0.170	0	09:05	0.436	0.436	0.005	
MH_35	JUNCTION	0.000	0.169	0	09:06	0	0.436	0.042	
MH_36	JUNCTION	0.000	0.169	0	09:06	0	0.436	-0.084	
MH_37	JUNCTION	0.000	0.579	0	09:09	0	1.56	-0.132	
MH_38	JUNCTION	0.000	0.555	0	09:08	0	1.56	0.172	
MH_39	JUNCTION	0.000	1.009	0	09:13	0	3.28	-0.101	
MH_43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_45	JUNCTION	0.000	0.006	0	09:06	0	0.00126	0.650	
MH_47	JUNCTION	0.000	1.009	0	09:13	0	3.29	0.418	
MH_56	JUNCTION	0.000	0.155	0	09:09	0	0.566	-0.373	
MH_57	JUNCTION	0.000	0.091	0	09:08	0	0.56	0.024	
MH_58	JUNCTION	0.000	0.090	0	09:08	0	0.56	0.015	
MH_59	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_61	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_63	JUNCTION	0.000	0.089	0	09:08	0	0.56	0.075	

MH_64	JUNCTION	0.000	0.088	0	09:15	0	0.559	0.227
MH_65	JUNCTION	0.000	0.174	0	09:09	0	0.855	0.035
MH_66	JUNCTION	0.000	0.173	0	09:09	0	0.855	0.110
MH_67	JUNCTION	0.000	1.172	0	09:14	0	4.12	-0.037
MH_68	JUNCTION	0.000	1.172	0	09:14	0	4.12	0.087
MH_69	JUNCTION	0.000	0.175	0	10:31	0	3.33	0.055
MH_70	JUNCTION	0.000	0.175	0	10:32	0	3.33	0.007
MH1	JUNCTION	0.000	0.004	0	09:08	0	0.000647	0.056
MH1_Main	JUNCTION	0.000	0.049	0	09:45	0	0.116	-0.056
MH10	JUNCTION	0.000	0.762	0	09:10	0	2.05	0.010
MH10__S	JUNCTION	0.000	0.084	0	09:07	0	0.00516	0.405
MH10_Main	JUNCTION	0.000	0.253	0	09:13	0	2.37	0.194
MH11	JUNCTION	0.000	1.172	0	09:07	0	2.91	0.053
MH11__S	JUNCTION	0.000	0.413	0	09:05	0	0.583	5.762
MH11_Main	JUNCTION	0.000	0.252	0	09:14	0	2.36	0.011
MH12	JUNCTION	0.000	0.195	0	09:05	0	0.31	0.031
MH13	JUNCTION	0.000	1.186	0	09:09	0	3.13	0.035
MH13_Main	JUNCTION	0.000	0.039	0	09:09	0	0.119	0.969
MH13_Main_	JUNCTION	0.000	0.038	0	09:11	0	0.118	-0.656
MH14	JUNCTION	0.000	1.179	0	09:10	0	3.13	0.020
MH14_Main	JUNCTION	0.000	0.039	0	09:10	0	0.119	-0.154
MH15	JUNCTION	0.000	1.179	0	09:10	0	3.13	-0.001
MH15_Main	JUNCTION	0.000	0.033	0	09:11	0	0.121	0.043
MH16	JUNCTION	0.000	1.186	0	09:10	0	3.2	0.010
MH2	JUNCTION	0.000	0.282	0	09:08	0	0.745	0.038
MH2_Main	JUNCTION	0.000	0.375	0	09:49	0	1.24	-0.024
MH2_S	JUNCTION	0.253	0.501	0	09:05	0.401	0.775	0.091
MH21	JUNCTION	0.000	0.164	0	09:26	0	0.358	6.879
MH21_S	JUNCTION	0.477	0.605	0	09:05	0.757	1.55	0.161
MH22	JUNCTION	0.000	0.133	0	09:16	0	0.333	1.207
MH23	JUNCTION	0.000	0.133	0	09:16	0	0.33	0.106
MH24	JUNCTION	0.000	0.448	0	09:16	0	2.02	0.022
MH25	JUNCTION	0.000	0.555	0	09:16	0	2.36	0.008
MH25-1	JUNCTION	0.000	0.555	0	09:16	0	2.36	0.021
MH26	JUNCTION	0.000	0.552	0	09:16	0	2.36	0.006
MH3	JUNCTION	0.000	0.345	0	09:09	0	0.925	0.010
MH3_Main	JUNCTION	0.000	0.134	0	09:26	0	1.31	-0.043
MH3_S	JUNCTION	0.311	0.332	0	09:05	0.494	0.524	-0.098
MH30	JUNCTION	0.000	0.138	0	09:10	0	0.491	0.144
MH31	JUNCTION	0.000	0.138	0	09:10	0	0.49	0.048
MH32	JUNCTION	0.000	0.204	0	09:10	0	0.676	-0.098

MH33	JUNCTION	0.000	0.203	0	09:10	0	0.676	-0.397	
MH34	JUNCTION	0.000	0.043	0	09:05	0	0.188	0.032	
MH34_S	JUNCTION	0.292	0.318	0	09:05	0.464	0.852	-0.565	
MH35	JUNCTION	0.000	0.043	0	09:06	0	0.188	0.085	
MH36	JUNCTION	0.000	0.043	0	09:06	0	0.188	0.098	
MH36_S	JUNCTION	0.000	0.168	0	09:12	0	0.39	0.461	
MH37	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH37_S	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH38	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH39	JUNCTION	0.000	0.001	0	09:15	0	0.00245	5.061	
MH4	JUNCTION	0.000	0.355	0	09:09	0	1	0.037	
MH4_Main	JUNCTION	0.000	0.122	0	09:35	0	1.31	0.002	
MH40	JUNCTION	0.000	0.294	0	09:10	0	0.969	0.132	
MH41	JUNCTION	0.000	0.332	0	09:11	0	1.16	0.023	
MH41_S	JUNCTION	0.000	0.210	0	09:08	0	0.423	0.000	
MH42	JUNCTION	0.000	0.089	0	09:55	0	1.22	0.133	
MH43	JUNCTION	0.000	0.088	0	09:54	0	1.22	-0.015	
MH5	JUNCTION	0.000	0.074	0	09:07	0	0.164	0.104	
MH5_Main	JUNCTION	0.000	0.236	0	09:28	0	1.98	0.111	
MH6	JUNCTION	0.000	0.074	0	09:07	0	0.164	0.362	
MH6_Main	JUNCTION	0.000	0.214	0	09:17	0	2.06	0.176	
MH7	JUNCTION	0.000	0.072	0	09:09	0	0.163	-0.183	
MH7_Main	JUNCTION	0.000	0.214	0	09:17	0	2.05	0.031	
MH8	JUNCTION	0.000	0.422	0	09:12	0	1.16	0.046	
MH8_Main	JUNCTION	0.000	0.214	0	09:18	0	2.05	0.022	
MH8_S	JUNCTION	0.264	0.329	0	09:05	0.419	0.514	0.549	
MH9	JUNCTION	0.000	0.710	0	09:09	0	1.89	-0.005	
MH9__S	JUNCTION	0.000	0.286	0	09:07	0	0.511	-0.001	
MH9_Main	JUNCTION	0.000	0.226	0	09:17	0	2.15	0.014	
MJ_	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ1	JUNCTION	0.071	0.364	0	09:10	0.136	1.03	2.552	
MJ10	JUNCTION	0.008	0.082	0	09:05	0.016	0.137	0.038	
MJ100	JUNCTION	1.104	1.665	0	09:05	1.75	3.26	0.228	
MJ101	JUNCTION	0.254	0.257	0	09:05	0.403	0.427	0.128	
MJ102	JUNCTION	0.217	0.253	0	09:05	0.344	0.575	0.000	
MJ103	JUNCTION	0.270	0.288	0	09:05	0.428	0.674	0.819	
MJ104	JUNCTION	0.051	0.154	0	09:08	0.0813	0.448	0.492	
MJ105	JUNCTION	0.305	0.986	0	09:05	0.484	2.21	57.486	
MJ106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ107	JUNCTION	0.029	0.173	0	09:09	0.0465	0.515	-0.935	
MJ108	JUNCTION	0.242	0.242	0	09:05	0.385	0.385	-1.521	

MJ109	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ110	JUNCTION	0.160	0.160	0	09:05	0.254	0.254	0.665	
MJ111	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ112	JUNCTION	0.214	0.660	0	09:08	0.34	1.58	-0.053	
MJ113	JUNCTION	0.083	0.083	0	09:05	0.132	0.333	-1.236	
MJ114	JUNCTION	0.030	0.030	0	09:05	0.0473	0.0473	-3.464	
MJ115	JUNCTION	0.245	0.246	0	09:05	0.389	0.395	-0.038	
MJ116	JUNCTION	0.495	0.545	0	09:05	0.786	1.05	0.047	
MJ117	JUNCTION	0.015	0.015	0	09:05	0.0246	0.0246	-9.803	
MJ118	JUNCTION	0.094	0.931	0	09:13	0.15	1.77	37.053	
MJ119	JUNCTION	0.111	0.717	0	09:14	0.176	2.15	9.787	
MJ12	JUNCTION	0.591	0.591	0	09:05	1.18	1.18	-0.228	
MJ120	JUNCTION	0.236	0.347	0	09:05	0.375	0.634	0.000	
MJ121	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ122	JUNCTION	0.689	0.812	0	09:05	1.09	1.63	-0.124	
MJ123	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ124	JUNCTION	0.214	0.554	0	09:05	0.341	1.05	18.734	
MJ125	JUNCTION	0.228	0.228	0	09:05	0.361	0.361	-2.427	
MJ126	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ127	JUNCTION	0.132	0.132	0	09:05	0.21	0.21	-2.590	
MJ128	JUNCTION	0.405	0.425	0	09:05	0.643	0.71	-0.424	
MJ129	JUNCTION	0.455	0.909	0	09:05	0.723	2.13	-3.025	
MJ13	JUNCTION	0.418	0.538	0	09:05	0.664	0.997	0.009	
MJ130	JUNCTION	0.611	0.611	0	09:05	0.971	0.971	-3.467	
MJ131	JUNCTION	0.166	0.168	0	09:05	0.263	0.272	-0.081	
MJ132	JUNCTION	0.024	0.440	0	09:13	0.0388	1.41	-2.541	
MJ133	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ134	JUNCTION	0.724	1.177	0	09:10	1.15	3.06	1.122	
MJ135	JUNCTION	0.557	0.615	0	09:05	0.885	0.968	-0.216	
MJ136	JUNCTION	0.036	0.115	0	09:05	0.057	0.171	-1.828	
MJ137	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ138	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ139	JUNCTION	0.243	0.243	0	09:05	0.385	0.385	-0.023	
MJ14	JUNCTION	0.034	0.066	0	09:06	0.0661	0.137	0.372	
MJ140	JUNCTION	0.000	0.006	0	09:08	0	0.00278	9.372	
MJ142	JUNCTION	0.000	0.126	0	09:05	0	0.201	0.763	
MJ143	JUNCTION	0.127	0.127	0	09:05	0.202	0.202	0.122	
MJ144	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ145	JUNCTION	0.215	0.215	0	09:05	0.341	0.341	0.220	
MJ146	JUNCTION	0.315	0.776	0	09:05	0.501	1.69	0.252	

MJ147	JUNCTION	0.205	1.226	0	09:10	0.326	3.15	-0.802	
MJ148	JUNCTION	0.658	1.511	0	09:07	1.05	3.77	0.178	
MJ149	JUNCTION	0.000	0.071	0	09:05	0	0.0296	0.257	
MJ15	JUNCTION	0.354	0.354	0	09:05	0.562	0.562	-0.105	
MJ150	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ151	JUNCTION	0.103	0.103	0	09:05	0.164	0.164	0.115	
MJ152	JUNCTION	1.768	1.861	0	09:05	2.92	3.26	0.338	
MJ153	JUNCTION	0.335	0.340	0	09:05	0.532	0.637	0.183	
MJ154	JUNCTION	0.766	0.838	0	09:05	1.38	1.82	-0.009	
MJ155	JUNCTION	0.258	0.258	0	09:05	0.662	0.662	0.425	
MJ156	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ157	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ158	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ16	JUNCTION	0.000	0.008	0	09:07	0	0.00511	19.191	
MJ17	JUNCTION	0.093	0.093	0	09:05	0.148	0.148	-3.950	
MJ18	JUNCTION	0.022	0.132	0	09:08	0.0349	0.393	0.465	
MJ19	JUNCTION	0.211	0.263	0	09:05	0.336	0.455	11.098	
MJ2	JUNCTION	0.126	0.153	0	09:05	0.242	0.309	0.559	
MJ20	JUNCTION	0.027	0.041	0	09:05	0.0526	0.0818	0.625	
MJ21	JUNCTION	0.048	0.225	0	09:06	0.0757	0.433	0.412	
MJ22	JUNCTION	2.024	2.373	0	09:05	3.21	4.43	16.261	
MJ23	JUNCTION	0.039	0.039	0	09:05	0.0782	0.0782	0.104	
MJ24	JUNCTION	0.334	0.782	0	09:07	0.531	1.85	1.054	
MJ25	JUNCTION	0.188	0.200	0	09:05	0.335	0.375	0.562	
MJ26	JUNCTION	0.242	0.323	0	09:05	0.401	0.873	0.968	
MJ27	JUNCTION	0.155	0.750	0	09:23	0.315	3.27	0.144	
MJ28	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ29	JUNCTION	0.101	0.145	0	09:05	0.161	0.442	0.000	
MJ3	JUNCTION	0.356	0.996	0	09:06	0.565	3.09	0.322	
MJ30	JUNCTION	0.108	0.152	0	09:05	0.207	0.343	0.512	
MJ31	JUNCTION	0.128	0.223	0	09:08	0.245	0.587	-0.309	
MJ32	JUNCTION	0.081	0.104	0	09:05	0.156	0.238	0.587	
MJ33	JUNCTION	0.000	0.062	0	09:13	0	0.231	-0.879	
MJ34	JUNCTION	0.164	0.173	0	09:05	0.26	0.279	0.024	
MJ35	JUNCTION	0.098	0.687	0	09:22	0.198	2.97	0.331	
MJ36	JUNCTION	1.098	1.193	0	09:05	1.74	1.97	-0.086	
MJ37	JUNCTION	0.065	0.065	0	09:05	0.132	0.132	-3.371	
MJ38	JUNCTION	0.105	0.108	0	09:05	0.166	0.237	0.000	
MJ39	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ40	JUNCTION	0.000	0.019	0	09:08	0	0.017	8.354	

MJ41	JUNCTION	0.000	0.027	0	09:08	0	0.0152	6.836	
MJ42	JUNCTION	0.109	0.639	0	09:21	0.173	2.73	0.239	
MJ43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ44	JUNCTION	0.029	0.029	0	09:05	0.0551	0.0551	3.021	
MJ45	JUNCTION	0.052	0.052	0	09:05	0.083	0.083	-0.220	
MJ46	JUNCTION	0.027	0.029	0	09:05	0.0422	0.0495	-2.031	
MJ47	JUNCTION	0.097	0.097	0	09:05	0.153	0.155	0.000	
MJ48	JUNCTION	0.144	0.721	0	09:09	0.292	1.83	2.879	
MJ49	JUNCTION	0.000	0.042	0	09:09	0	0.12	-0.203	
MJ5	JUNCTION	0.078	0.078	0	09:05	0.121	0.121	0.111	
MJ50	JUNCTION	0.000	0.016	0	09:13	0	0.0291	2127.927	
MJ51	JUNCTION	0.039	0.039	0	09:05	0.0627	0.0627	0.373	
MJ52	JUNCTION	0.145	0.145	0	09:05	0.23	0.232	50.573	
MJ53	JUNCTION	0.013	0.013	0	09:05	0.0208	0.0208	-6.671	
MJ54	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ55	JUNCTION	0.165	0.428	0	09:08	0.334	0.965	-0.108	
MJ56	JUNCTION	0.040	0.040	0	09:05	0.0643	0.0643	-1.114	
MJ57	JUNCTION	0.065	0.132	0	09:07	0.104	0.34	0.229	
MJ58	JUNCTION	0.040	0.151	0	09:06	0.0628	0.237	0.000	
MJ59	JUNCTION	0.166	0.166	0	09:05	0.263	0.263	0.000	
MJ60	JUNCTION	0.014	0.196	0	09:07	0.0216	0.416	0.208	
MJ61	JUNCTION	0.139	0.212	0	09:05	0.221	0.411	0.000	
MJ62	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ63	JUNCTION	0.043	0.625	0	09:19	0.0688	2.58	0.401	
MJ64	JUNCTION	0.096	0.134	0	09:05	0.152	0.285	10.180	
MJ65	JUNCTION	0.087	0.119	0	09:05	0.138	0.223	-1.154	
MJ66	JUNCTION	0.008	0.082	0	09:07	0.0166	0.154	0.411	
MJ67	JUNCTION	0.777	0.777	0	09:05	1.23	1.23	1.700	
MJ68	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ69	JUNCTION	0.147	0.211	0	09:05	0.234	0.397	0.466	
MJ7	JUNCTION	0.641	0.732	0	09:05	1	1.22	0.015	
MJ70	JUNCTION	0.307	0.394	0	09:05	0.488	0.904	0.887	
MJ71	JUNCTION	0.210	0.210	0	09:05	0.425	0.425	-2.551	
MJ72	JUNCTION	0.138	0.558	0	09:15	0.219	2.25	0.347	
MJ73	JUNCTION	0.038	0.127	0	09:06	0.0609	0.238	-1.069	
MJ74	JUNCTION	0.248	0.314	0	09:05	0.394	0.696	0.278	
MJ75	JUNCTION	0.015	0.056	0	09:08	0.0242	0.143	1.154	
MJ76	JUNCTION	0.049	0.126	0	09:05	0.0782	0.227	0.639	
MJ77	JUNCTION	0.020	0.093	0	09:05	0.0318	0.16	0.356	
MJ78	JUNCTION	0.010	0.113	0	09:07	0.0156	0.259	-2.987	
MJ79	JUNCTION	0.020	0.173	0	09:13	0.0323	0.502	-0.019	

MJ8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ80	JUNCTION	0.096	0.150	0	09:05	0.152	0.258	-0.058	
MJ81	JUNCTION	0.104	0.123	0	09:05	0.165	0.245	0.478	
MJ82	JUNCTION	0.113	0.182	0	09:08	0.179	0.532	0.406	
MJ83	JUNCTION	0.038	0.384	0	09:13	0.0605	1.54	0.959	
MJ84	JUNCTION	0.191	0.191	0	09:05	0.303	0.303	-0.353	
MJ85	JUNCTION	0.000	0.153	0	09:06	0	0.399	0.053	
MJ86	JUNCTION	0.135	0.135	0	09:05	0.215	0.215	0.357	
MJ87	JUNCTION	0.238	0.257	0	09:05	0.378	0.464	0.000	
MJ88	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ89	JUNCTION	0.156	0.449	0	09:11	0.247	1.68	0.413	
MJ9	JUNCTION	0.178	0.178	0	09:05	0.36	0.36	0.414	
MJ90	JUNCTION	0.228	0.264	0	09:05	0.361	0.523	0.000	
MJ91	JUNCTION	0.032	0.075	0	09:05	0.0511	0.147	-3.602	
MJ92	JUNCTION	0.431	0.625	0	09:06	0.684	1.9	0.287	
MJ93	JUNCTION	0.272	0.300	0	09:05	0.432	0.662	0.026	
MJ94	JUNCTION	0.000	0.024	0	09:05	0	0.0404	0.000	
MJ95	JUNCTION	0.627	0.627	0	09:05	0.997	0.997	1.501	
MJ96	JUNCTION	0.000	0.031	0	10:07	0	0.384	2.065	
MJ97	JUNCTION	0.019	0.261	0	09:07	0.0296	0.414	0.000	
MJ98	JUNCTION	0.000	0.423	0	09:07	0	1.07	0.552	
MJ99	JUNCTION	0.030	0.256	0	09:09	0.0473	0.765	-0.021	
OGS-	JUNCTION	0.000	0.168	0	08:54	0	1.44	0.004	
RICE_POND_OUTLET	JUNCTION	0.000	0.175	0	10:31	0	3.33	0.043	
OF10-	OUTFALL	0.597	0.597	0	09:05	0.947	0.947	0.000	
OF11-M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF12-	OUTFALL	0.000	0.102	0	09:08	0	0.199	0.000	
OF13-	OUTFALL	0.000	0.168	0	08:54	0	1.44	0.000	
OF14-	OUTFALL	0.000	0.175	0	10:32	0	3.33	0.000	
OF15-	OUTFALL	1.712	1.712	0	09:05	2.72	2.72	0.000	
OF16-	OUTFALL	0.000	0.196	0	09:12	0	0.947	0.000	
OF17-	OUTFALL	0.129	1.253	0	09:08	0.205	3.41	0.000	
OF18-M	OUTFALL	0.065	0.065	0	09:05	0.103	0.103	0.000	
OF19-	OUTFALL	0.199	0.257	0	09:05	0.316	0.875	0.000	
OF1-M	OUTFALL	0.000	0.363	0	09:26	0	1.78	0.000	
OF20-	OUTFALL	0.000	0.506	0	09:17	0	3.77	0.000	
OF21-	OUTFALL	0.595	0.595	0	09:05	0.945	0.945	0.000	
OF22_M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF23-	OUTFALL	1.214	1.214	0	09:05	1.93	1.93	0.000	
OF24-	OUTFALL	1.384	1.854	0	09:09	4.14	6.5	0.000	
OF25-	OUTFALL	0.000	0.187	0	09:14	0	1.83	0.000	

OF26-M	OUTFALL	0.195	0.764	0	09:16	0.31	2.23	0.000	
OF27-1	OUTFALL	0.292	0.292	0	09:05	0.464	1.69	0.000	
OF27-M	OUTFALL	0.653	0.665	0	09:05	1.04	1.38	0.000	
OF28-	OUTFALL	0.881	0.881	0	09:05	1.38	1.38	0.000	
OF29-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF2-M	OUTFALL	0.000	0.748	0	09:24	0	3.27	0.000	
OF2-M-	OUTFALL	0.000	0.150	0	09:07	0	0.359	0.000	
OF3-	OUTFALL	0.100	0.314	0	09:13	0.202	2.56	0.000	
OF30-M	OUTFALL	0.119	0.368	0	09:07	0.188	0.923	0.000	
OF31-M	OUTFALL	0.127	0.329	0	09:08	0.202	1.07	0.000	
OF32-M	OUTFALL	0.000	1.735	0	09:08	0	3.81	0.000	
OF33-	OUTFALL	0.000	0.488	0	09:13	0	2.6	0.000	
OF34-	OUTFALL	2.290	2.290	0	09:05	3.75	3.75	0.000	
OF35-	OUTFALL	0.089	0.089	0	09:10	0.166	0.166	0.000	
OF36-	OUTFALL	0.410	0.410	0	09:05	0.715	0.715	0.000	
OF37-	OUTFALL	0.344	0.344	0	09:15	0.681	0.681	0.000	
OF38-	OUTFALL	0.210	0.210	0	09:10	0.391	0.391	0.000	
OF39-	OUTFALL	1.402	1.402	0	09:05	2.25	2.25	0.000	
OF3-M	OUTFALL	0.000	0.442	0	09:07	0	0.777	0.000	
OF40-	OUTFALL	1.152	1.152	0	09:05	1.85	1.85	0.000	
OF41-	OUTFALL	0.960	0.960	0	09:05	1.54	1.54	0.000	
OF42-	OUTFALL	2.565	2.565	0	09:05	4.2	4.2	0.000	
OF43-	OUTFALL	3.974	3.974	0	09:05	6.5	6.5	0.000	
OF44-	OUTFALL	3.413	3.413	0	09:05	5.58	5.58	0.000	
OF45-	OUTFALL	3.352	3.352	0	09:05	5.48	5.48	0.000	
OF46-	OUTFALL	5.029	5.029	0	09:05	8.23	8.23	0.000	
OF47-	OUTFALL	5.481	5.481	0	09:05	8.97	8.97	0.000	
OF48-	OUTFALL	0.587	0.587	0	09:15	1.16	1.16	0.000	
OF49-	OUTFALL	2.607	2.607	0	09:05	4.27	4.27	0.000	
OF4-M	OUTFALL	0.209	0.401	0	09:05	0.332	0.741	0.000	
OF50	OUTFALL	1.924	1.924	0	09:05	3.15	3.15	0.000	
OF51	OUTFALL	1.749	1.749	0	09:05	2.81	2.81	0.000	
OF52	OUTFALL	2.148	2.148	0	09:05	3.45	3.45	0.000	
OF53	OUTFALL	4.089	4.089	0	09:05	6.69	6.69	0.000	
OF54	OUTFALL	3.410	3.410	0	09:05	5.58	5.58	0.000	
OF55	OUTFALL	1.078	1.078	0	09:05	1.73	1.73	0.000	
OF56	OUTFALL	3.006	3.006	0	09:05	4.83	4.83	0.000	
OF57	OUTFALL	1.132	1.132	0	09:05	1.82	1.82	0.000	
OF58	OUTFALL	3.248	3.248	0	09:05	5.52	5.52	0.000	
OF59	OUTFALL	1.240	1.240	0	09:05	1.93	1.93	0.000	
OF5-M	OUTFALL	0.493	0.509	0	09:05	0.783	0.924	0.000	

OF6-	OUTFALL	0.171	0.238	0	09:05	0.271	0.802	0.000	
OF60	OUTFALL	3.333	3.333	0	09:05	5.48	5.48	0.000	
OF61	OUTFALL	0.195	0.195	0	09:15	0.386	0.386	0.000	
OF62	OUTFALL	0.054	0.054	0	09:05	0.139	0.139	0.000	
OF7-M	OUTFALL	0.000	0.821	0	09:09	0	2.55	0.000	
OF8-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF9-M	OUTFALL	0.220	1.705	0	09:06	0.35	3.6	0.000	
Gill_RD_Pond	STORAGE	0.167	0.587	0	09:07	0.266	1.81	5.355	
Rice_Pond	STORAGE	0.224	1.493	0	09:15	0.371	6.69	0.006	

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
CB15	JUNCTION	0.12	0.157	0.943
CB17	JUNCTION	0.07	0.112	2.373
CB19	JUNCTION	0.07	0.355	0.845
CB20	JUNCTION	0.11	0.466	0.954
CB30_1	JUNCTION	0.38	1.270	0.000
CB31	JUNCTION	0.54	0.830	0.000
CB32	JUNCTION	0.63	0.920	0.000
CB33	JUNCTION	0.72	1.090	0.000
CB41	JUNCTION	0.93	0.550	0.000
CB42	JUNCTION	1.01	0.776	0.004
CB-58	JUNCTION	0.58	1.250	0.250
CBMH_1	JUNCTION	1.58	1.166	0.000
DICBMH42	JUNCTION	14.84	0.200	1.425
J101	JUNCTION	1.96	1.000	0.000
J102	JUNCTION	1.13	1.286	0.000
J110	JUNCTION	2.02	1.118	0.027
J113	JUNCTION	1.98	1.000	0.000
J125	JUNCTION	0.32	0.123	2.872
J91	JUNCTION	19.96	0.911	3.156
J98	JUNCTION	1.65	0.590	0.000

MH_38	JUNCTION	0.15	0.061	2.136
MH_56	JUNCTION	0.38	0.530	0.000
MH_68	JUNCTION	2.63	0.149	1.118
MH1	JUNCTION	0.28	1.999	0.591
MH1_Main	JUNCTION	0.39	1.292	0.178
MH11__S	JUNCTION	0.10	0.321	1.379
MH14	JUNCTION	0.09	0.104	4.306
MH15	JUNCTION	0.19	0.330	4.590
MH15_Main	JUNCTION	0.61	0.073	1.877
MH2	JUNCTION	0.11	1.802	0.548
MH2_Main	JUNCTION	0.56	1.107	0.000
MH21	JUNCTION	0.62	1.680	0.000
MH22	JUNCTION	0.65	1.510	0.000
MH23	JUNCTION	0.76	1.569	0.001
MH24	JUNCTION	0.88	1.258	0.397
MH25-1	JUNCTION	0.17	0.091	1.999
MH3	JUNCTION	0.10	1.354	1.216
MH4_Main	JUNCTION	0.65	0.345	1.175
MH5_Main	JUNCTION	1.34	1.431	0.149
MH6_Main	JUNCTION	1.55	0.468	2.112
MH8_Main	JUNCTION	1.28	1.095	0.144
MJ105	JUNCTION	14.79	1.453	0.134
MJ146	JUNCTION	0.64	1.700	0.000

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CMS	Time of Max Occurrence days hr:min	Total Flood Volume 10^6 ltr	Maximum Ponded Depth Meters
CB30_1	0.01	0.017	0 09:46	0.000	0.000
CB31	0.40	0.086	0 09:54	0.036	0.000
CB32	0.01	0.044	0 09:57	0.001	0.000
CB33	0.01	0.125	0 09:52	0.002	0.000
CB41	0.58	0.045	0 09:28	0.064	0.000

CBMH_1	0.95	1.329	0	09:05	1.201	0.000
J101	1.61	0.376	0	09:18	0.415	0.000
J102	0.69	0.155	0	09:13	0.223	0.000
J113	0.45	0.018	0	08:59	0.006	0.000
J98	0.64	0.013	0	09:19	0.004	0.000
MH_56	0.11	0.064	0	09:12	0.008	0.000
MH2_Main	0.01	0.203	0	09:54	0.002	0.000
MH21	0.02	0.103	0	09:19	0.002	0.000
MH22	0.01	0.022	0	09:07	0.000	0.000
MJ146	0.01	0.249	0	09:10	0.000	0.000

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Storage Volume Summary
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Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CMS
Gill_RD_Pond	0.485	16	0	0	0.857	29	0 09:54	0.088
Rice_Pond	3.527	25	0	0	5.010	36	0 10:31	0.175

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Outfall Loading Summary
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Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
OF10-	99.90	0.022	0.597	0.947
OF11-M	0.00	0.000	0.000	0.000
OF12-	93.55	0.006	0.102	0.199
OF13-	99.72	0.033	0.168	1.444
OF14-	99.98	0.057	0.175	3.330
OF15-	99.96	0.062	1.712	2.718
OF16-	99.69	0.022	0.196	0.947

OF17-	99.73	0.085	1.253	3.407
OF18-M	99.34	0.002	0.065	0.103
OF19-	99.80	0.018	0.257	0.875
OF1-M	92.34	0.052	0.363	1.779
OF20-	92.54	0.103	0.506	3.772
OF21-	99.90	0.022	0.595	0.945
OF22_M	0.00	0.000	0.000	0.000
OF23-	99.95	0.044	1.214	1.928
OF24-	99.97	0.182	1.854	6.500
OF25-	96.93	0.045	0.187	1.834
OF26-M	99.77	0.062	0.764	2.233
OF27-1	99.83	0.036	0.292	1.687
OF27-M	99.90	0.033	0.665	1.380
OF28-	99.95	0.030	0.881	1.384
OF29-	0.00	0.000	0.000	0.000
OF2-M	96.84	0.089	0.748	3.268
OF2-M-	96.39	0.010	0.150	0.359
OF3-	99.74	0.058	0.314	2.563
OF30-M	99.66	0.023	0.368	0.923
OF31-M	99.68	0.027	0.329	1.067
OF32-M	79.49	0.127	1.735	3.814
OF33-	99.56	0.067	0.488	2.601
OF34-	99.96	0.079	2.290	3.747
OF35-	12.04	0.043	0.089	0.166
OF36-	99.94	0.016	0.410	0.715
OF37-	12.81	0.166	0.344	0.681
OF38-	12.49	0.097	0.210	0.391
OF39-	99.95	0.048	1.402	2.252
OF3-M	93.48	0.022	0.442	0.777
OF40-	99.94	0.039	1.152	1.850
OF41-	99.93	0.033	0.960	1.542
OF42-	99.96	0.089	2.565	4.197
OF43-	99.97	0.138	3.974	6.502
OF44-	99.97	0.118	3.413	5.585
OF45-	99.97	0.116	3.352	5.484
OF46-	99.98	0.174	5.029	8.228
OF47-	99.98	0.190	5.481	8.968
OF48-	12.82	0.283	0.587	1.163
OF49-	99.96	0.090	2.607	4.266
OF4-M	99.78	0.018	0.401	0.741
OF50	99.95	0.067	1.924	3.148

OF51	99.96	0.059	1.749	2.809
OF52	99.97	0.073	2.148	3.449
OF53	99.97	0.142	4.089	6.691
OF54	99.97	0.118	3.410	5.580
OF55	99.94	0.037	1.078	1.731
OF56	99.98	0.102	3.006	4.827
OF57	99.94	0.038	1.132	1.818
OF58	99.99	0.123	3.248	5.517
OF59	99.97	0.041	1.240	1.929
OF5-M	99.87	0.022	0.509	0.924
OF6-	99.77	0.018	0.238	0.802
OF60	99.99	0.118	3.333	5.482
OF61	12.81	0.094	0.195	0.386
OF62	93.89	0.004	0.054	0.139
OF7-M	96.62	0.071	0.821	2.550
OF8-	0.00	0.000	0.000	0.000
OF9-M	99.79	0.090	1.705	3.600
System	85.99	4.293	68.212	160.644

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Link Flow Summary
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Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
C_dummy	CONDUIT	0.363	0 09:26	7.58	0.04	0.31
C1	CONDUIT	0.488	0 09:13	2.26	0.37	0.42
C100	CONDUIT	1.007	0 09:12	2.04	1.44	0.91
C106	CONDUIT	0.555	0 09:08	1.74	0.92	1.00
C108	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C110	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C111	CONDUIT	0.000	0 00:00	0.00	0.00	0.20
C113	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C114	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C115	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C116	CONDUIT	0.006	0 09:06	0.23	0.05	0.66

C118	CONDUIT	0.008	0	09:06	0.20	0.04	0.94
C119_1	CONDUIT	0.013	0	09:06	0.19	0.01	0.47
C119_2	CONDUIT	1.006	0	09:14	2.11	1.30	0.91
C123	CONDUIT	0.173	0	09:09	1.45	1.02	0.96
C124	CONDUIT	0.173	0	09:09	1.38	1.43	0.82
C125	CONDUIT	1.172	0	09:14	2.61	0.78	1.00
C126	CONDUIT	1.172	0	09:14	2.39	1.08	1.00
C127	CONDUIT	0.175	0	10:31	1.80	0.43	0.46
C128	CONDUIT	0.175	0	10:32	1.72	0.46	0.48
C129	CONDUIT	0.175	0	10:32	1.73	0.45	0.47
C130	CONDUIT	0.088	0	09:15	1.03	0.53	0.58
C145	CONDUIT	0.091	0	09:08	1.37	1.40	0.89
C147	CONDUIT	0.090	0	09:08	1.45	1.11	0.83
C150	CONDUIT	0.089	0	09:08	1.36	1.28	0.89
C151	CONDUIT	0.003	0	09:09	0.14	0.02	0.29
C156	CONDUIT	0.000	0	00:00	0.00	0.00	0.06
C159	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C160	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C161	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C164	CONDUIT	0.196	0	09:12	3.80	0.28	0.36
C165	CONDUIT	0.000	0	00:00	0.00	0.00	0.22
C167	CONDUIT	0.291	0	09:11	1.60	1.22	0.79
C185	CONDUIT	0.138	0	09:10	1.03	0.74	0.61
C186	CONDUIT	0.137	0	09:11	0.87	0.71	0.70
C187	CONDUIT	0.203	0	09:10	1.16	0.94	0.77
C188	CONDUIT	0.202	0	09:11	1.14	0.94	0.77
C189	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C190	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C193	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C194	CONDUIT	0.001	0	09:21	0.23	0.01	0.49
C2	CONDUIT	0.552	0	09:13	1.61	1.11	1.00
C200-	CONDUIT	0.445	0	09:14	1.60	0.93	1.00
C205	CONDUIT	0.043	0	09:06	0.93	0.28	0.33
C206	CONDUIT	0.043	0	09:06	0.90	0.32	0.36
C207	CONDUIT	0.043	0	09:06	0.77	0.29	0.56
C211	CONDUIT	0.089	0	09:55	0.26	0.02	0.61
C212	CONDUIT	0.088	0	09:54	0.92	0.14	0.23
C213	CONDUIT	0.088	0	09:55	0.95	0.14	0.23
C228	CONDUIT	0.029	0	09:13	0.42	0.25	1.00
C229	CONDUIT	0.000	0	00:00	0.00	0.00	0.03
C230	CONDUIT	0.038	0	09:46	0.56	0.29	1.00

C231	CONDUIT	0.131	0	09:52	1.85	2.13	1.00
C232	CONDUIT	0.089	0	09:54	1.28	0.93	1.00
C233	CONDUIT	0.091	0	09:54	1.28	1.25	1.00
C234	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C235	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C239	CONDUIT	0.045	0	09:28	0.80	0.41	1.00
C240	CONDUIT	0.045	0	09:28	0.64	0.27	1.00
C244	CONDUIT	0.005	0	09:09	0.22	0.04	0.91
C245	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C246	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C248	CONDUIT	1.179	0	09:10	2.67	1.67	1.00
C250	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C251	CONDUIT	0.022	0	09:05	1.11	0.22	0.32
C252	CONDUIT	0.080	0	09:05	1.13	0.69	1.00
C253	CONDUIT	0.195	0	09:05	3.14	2.15	0.82
C254	CONDUIT	0.195	0	09:05	4.05	0.75	0.68
C255	CONDUIT	0.002	0	09:10	0.05	0.01	0.57
C256	CONDUIT	0.097	0	09:05	1.78	0.49	1.00
C257	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C258	CONDUIT	0.139	0	09:05	1.99	3.10	0.96
C259	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C26	CONDUIT	0.075	0	09:05	1.10	0.36	0.46
C260	CONDUIT	0.070	0	09:11	1.12	1.10	0.83
C263	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C269	CONDUIT	0.009	0	09:06	1.23	0.03	0.11
C27	CONDUIT	0.171	0	09:08	1.69	1.07	0.87
C28	CONDUIT	0.245	0	09:08	1.57	0.50	0.54
C281	CONDUIT	0.072	0	09:09	1.15	1.10	0.91
C284	CONDUIT	0.074	0	09:07	1.18	1.30	0.86
C285	CONDUIT	0.002	0	09:06	0.10	0.03	0.42
C288	CONDUIT	0.168	0	09:38	2.39	2.68	0.98
C289	CONDUIT	0.168	0	08:54	1.70	0.67	0.60
C292	CONDUIT	0.168	0	08:54	1.51	0.86	0.66
C293	CONDUIT	0.168	0	08:54	1.83	0.60	0.56
C3	CONDUIT	0.242	0	09:07	1.27	0.48	0.72
C343	CONDUIT	0.133	0	09:16	1.88	3.68	1.00
C344	CONDUIT	0.133	0	09:16	0.83	1.09	1.00
C345	CONDUIT	0.448	0	09:16	2.07	2.15	1.00
C346	CONDUIT	0.552	0	09:16	2.75	1.29	0.70
C347	CONDUIT	0.551	0	09:16	4.58	0.40	0.44
C348	CONDUIT	0.506	0	09:17	3.18	5.02	1.00

C349	CONDUIT	0.210	0	09:08	1.95	0.54	0.81
C350	CONDUIT	0.164	0	09:13	1.57	1.40	0.81
C351	CONDUIT	0.000	0	00:00	0.00	0.00	0.21
C352	CONDUIT	0.082	0	09:09	1.50	0.49	0.50
C353	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C4	CONDUIT	0.088	0	09:15	1.13	0.54	0.49
C437	CONDUIT	0.000	0	00:00	0.00	0.00	0.11
C48	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C5	CONDUIT	0.235	0	09:05	0.46	0.02	0.56
C50	CONDUIT	0.000	0	00:00	0.00	0.00	0.33
C53	CONDUIT	0.358	0	09:05	1.89	0.64	0.78
C54	CONDUIT	0.169	0	09:07	1.14	0.65	0.86
C6	CONDUIT	0.116	0	09:09	0.67	0.09	0.38
C653	CONDUIT	1.149	0	09:09	2.60	1.63	1.00
C655	CONDUIT	0.345	0	09:09	1.48	1.00	1.00
C656	CONDUIT	0.287	0	09:08	1.23	1.25	1.00
C657	CONDUIT	0.000	0	09:10	0.09	0.00	0.03
C658	CONDUIT	1.179	0	09:10	2.67	1.69	1.00
C660	CONDUIT	0.225	0	09:18	1.60	1.01	0.85
C662	CONDUIT	0.214	0	09:17	1.76	7.20	0.71
C663	CONDUIT	0.122	0	09:37	1.48	0.71	1.00
C664	CONDUIT	0.125	0	09:26	1.77	1.46	1.00
C665	CONDUIT	0.013	0	09:46	0.35	0.05	0.53
C666	CONDUIT	1.187	0	09:10	2.75	1.31	0.94
C667	CONDUIT	0.040	0	09:11	0.90	0.10	0.22
C668	CONDUIT	0.101	0	09:09	5.22	0.02	0.09
C669	CONDUIT	0.101	0	09:09	2.98	0.03	0.11
C670	CONDUIT	0.000	0	00:00	0.00	0.00	0.20
C671	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C672	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C673	CONDUIT	0.038	0	09:11	0.93	0.21	0.36
C674	CONDUIT	0.187	0	09:14	3.82	1.20	1.00
C685	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C686	CONDUIT	0.017	0	09:08	1.42	0.06	0.17
C687	CONDUIT	0.017	0	09:08	1.85	0.04	0.14
C688	CONDUIT	0.017	0	09:09	1.09	0.04	0.13
C689	CONDUIT	0.317	0	09:14	1.55	0.72	0.56
C690	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C7	CONDUIT	0.114	0	09:10	1.57	0.06	0.15
C700	CONDUIT	0.214	0	09:18	3.03	5.16	1.00
C701	CONDUIT	0.252	0	09:14	2.23	1.11	0.67

C702	CONDUIT	0.252	0	09:14	3.66	0.41	0.45
C703	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C704	CONDUIT	0.005	0	09:04	0.08	0.02	0.35
C705	CONDUIT	0.041	0	09:09	0.69	0.20	0.26
C707	CONDUIT	0.040	0	09:10	0.73	0.16	0.25
C708	CONDUIT	0.101	0	09:09	1.25	0.23	0.33
C709	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C710	CONDUIT	0.017	0	09:13	1.34	0.20	0.31
C711	CONDUIT	0.017	0	09:13	0.82	0.26	0.67
C712	CONDUIT	0.064	0	09:01	1.30	1.27	1.00
C713	CONDUIT	0.025	0	09:05	0.52	0.53	1.00
C714	CONDUIT	0.133	0	09:16	0.83	1.18	1.00
C715	CONDUIT	0.555	0	09:16	2.06	2.03	0.90
C716	CONDUIT	0.712	0	09:11	2.52	1.37	1.00
C717	CONDUIT	0.359	0	09:15	1.58	0.88	1.00
C718	CONDUIT	0.005	0	09:08	0.07	0.07	1.00
C727	CONDUIT	0.016	0	09:10	1.05	0.03	0.12
C734	CONDUIT	0.316	0	09:13	1.53	0.79	0.56
C735	CONDUIT	0.316	0	09:12	1.45	0.83	0.59
C736	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C737	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C738	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C739	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C740	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C741	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C751	CONDUIT	0.214	0	09:18	2.27	0.35	0.71
C752	CONDUIT	0.191	0	09:28	1.98	1.74	1.00
C753	CONDUIT	0.122	0	09:35	1.73	1.33	1.00
C754	CONDUIT	0.068	0	09:51	1.08	0.73	1.00
C755	CONDUIT	0.032	0	09:10	0.47	0.30	1.00
C756	CONDUIT	0.039	0	09:10	0.72	0.34	0.96
C757	CONDUIT	0.777	0	09:11	1.82	1.08	1.00
C758	CONDUIT	0.102	0	09:08	1.24	0.17	0.28
C759	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C760	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C762	CONDUIT	0.000	0	09:17	0.01	0.00	0.54
C763	CONDUIT	0.506	0	09:17	3.74	0.65	0.79
C764	CONDUIT	0.555	0	09:16	1.96	1.82	1.00
C765	CONDUIT	0.026	0	09:13	0.54	0.70	1.00
C766	CONDUIT	0.027	0	09:13	0.56	1.55	1.00
C767	CONDUIT	1.179	0	09:10	2.67	1.74	1.00

C77	CONDUIT	0.169	0	09:06	1.40	0.66	0.64
C8	CONDUIT	0.260	0	09:18	2.43	0.03	0.17
C80	CONDUIT	0.169	0	09:06	1.50	0.83	0.67
C94	CONDUIT	0.245	0	09:08	1.62	0.61	0.55
CB72	CONDUIT	0.331	0	09:12	2.10	0.81	0.68
MC_C6	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC1	CHANNEL	0.257	0	09:21	0.18	0.01	0.13
MC10	CHANNEL	0.150	0	09:07	0.36	0.00	0.07
MC100	CHANNEL	0.106	0	09:07	0.25	0.00	0.07
MC101	CHANNEL	0.058	0	09:09	0.07	0.00	0.15
MC102	CHANNEL	0.070	0	09:07	0.23	0.00	0.06
MC103	CHANNEL	0.065	0	09:07	0.11	0.00	0.10
MC104	CHANNEL	0.165	0	09:13	0.28	0.00	0.08
MC105	CHANNEL	0.038	0	09:09	0.04	0.00	0.11
MC107	CHANNEL	0.075	0	09:05	0.50	0.00	0.04
MC108	CHANNEL	0.031	0	09:06	0.28	0.00	0.03
MC109	CHANNEL	0.044	0	09:05	0.31	0.00	0.04
MC11	CHANNEL	0.036	0	09:07	0.19	0.00	0.04
MC12	CHANNEL	0.034	0	09:07	0.15	0.00	0.05
MC120	CHANNEL	0.089	0	09:08	0.16	0.00	0.24
MC121	CHANNEL	0.026	0	09:08	0.04	0.00	0.10
MC122	CHANNEL	0.025	0	09:08	0.10	0.00	0.06
MC123	CHANNEL	0.153	0	09:06	0.98	0.01	0.11
MC124	CHANNEL	0.061	0	09:06	0.26	0.00	0.05
MC125	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC126	CHANNEL	0.329	0	09:13	0.25	0.00	0.13
MC128	CHANNEL	0.021	0	09:09	0.02	0.00	0.19
MC129	CHANNEL	0.017	0	09:07	0.12	0.00	0.04
MC13	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC130	CHANNEL	0.040	0	09:09	0.02	0.00	0.30
MC131	CHANNEL	0.240	0	09:09	1.25	0.01	0.11
MC132	CHANNEL	0.185	0	09:09	0.46	0.02	0.25
MC133	CHANNEL	0.113	0	09:09	0.38	0.00	0.06
MC135	CHANNEL	0.024	0	09:05	0.17	0.00	0.05
MC136	CHANNEL	0.414	0	09:08	0.41	0.01	0.11
MC137	CHANNEL	0.031	0	10:07	0.11	0.00	0.06
MC139	CHANNEL	0.130	0	09:12	0.09	0.01	0.13
MC14	CHANNEL	0.509	0	09:06	0.46	0.01	0.12
MC141	CHANNEL	0.223	0	09:06	0.41	0.00	0.09
MC142	CHANNEL	0.096	0	09:07	0.25	0.00	0.07
MC143	CHANNEL	0.123	0	09:09	0.72	0.01	0.11

MC144	CHANNEL	0.132	0	09:09	0.82	0.01	0.12
MC145	CHANNEL	1.531	0	09:07	2.24	0.06	0.25
MC146	CHANNEL	0.210	0	09:07	0.09	0.00	0.32
MC147	CHANNEL	0.097	0	09:13	0.22	0.00	0.08
MC148	CHANNEL	0.215	0	09:05	0.11	0.01	0.57
MC149	CHANNEL	0.000	0	00:00	0.00	0.00	0.19
MC15	CHANNEL	0.061	0	09:08	0.12	0.00	0.08
MC150	CHANNEL	0.116	0	09:18	0.06	0.00	0.16
MC151	CHANNEL	0.026	0	09:13	0.09	0.00	0.06
MC152	CHANNEL	0.031	0	09:06	0.15	0.00	0.04
MC153	CHANNEL	0.063	0	09:07	0.15	0.00	0.15
MC154	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC155	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC156	CHANNEL	0.030	0	09:09	0.05	0.00	0.09
MC157	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC158	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC159	CHANNEL	0.482	0	09:10	0.14	0.01	0.24
MC16	CHANNEL	0.118	0	09:08	0.17	0.00	0.09
MC160	CHANNEL	0.028	0	09:07	0.03	0.00	0.19
MC161	CHANNEL	0.022	0	09:07	0.08	0.00	0.05
MC162	CHANNEL	0.006	0	09:14	0.01	0.00	0.16
MC163	CHANNEL	0.005	0	09:14	0.04	0.00	0.05
MC164	CHANNEL	0.002	0	09:09	0.03	0.00	0.09
MC165	CHANNEL	0.465	0	09:07	0.51	0.05	0.41
MC166	CHANNEL	0.003	0	09:09	0.09	0.00	0.06
MC167	CHANNEL	0.003	0	09:09	0.01	0.00	0.15
MC168	CHANNEL	0.590	0	09:50	0.17	0.10	0.92
MC169	CHANNEL	0.701	0	09:16	0.78	0.00	0.11
MC17	CHANNEL	0.113	0	09:08	0.20	0.00	0.08
MC170	CHANNEL	0.029	0	09:41	0.02	0.00	0.16
MC171	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC172	CHANNEL	0.621	0	09:07	1.09	0.03	0.22
MC173	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC174	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC175	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC176	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC177	CHANNEL	0.299	0	09:18	0.06	0.00	0.30
MC178	CHANNEL	0.197	0	09:06	0.38	0.00	0.15
MC179	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC18	CHANNEL	0.008	0	09:07	0.04	0.00	0.04
MC180	CHANNEL	0.000	0	00:00	0.00	0.00	0.15

MC181	CHANNEL	0.109	0	09:06	0.10	0.00	0.16
MC182_1	CHANNEL	0.210	0	09:08	0.16	0.00	0.14
MC182_2	CHANNEL	0.163	0	09:13	0.37	0.00	0.07
MC182_3	CHANNEL	0.168	0	09:12	0.13	0.00	0.13
MC182_5	CHANNEL	0.263	0	09:05	0.27	0.00	0.15
MC183	CHANNEL	0.431	0	09:13	0.19	0.01	0.28
MC184	CHANNEL	0.572	0	09:08	0.52	0.01	0.17
MC185	CHANNEL	0.061	0	09:05	0.26	0.00	0.19
MC186	CHANNEL	0.083	0	09:06	0.70	0.00	0.10
MC187	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC188	CHANNEL	0.779	0	09:12	0.35	0.01	0.21
MC189	CHANNEL	0.067	0	09:09	0.10	0.00	0.40
MC19	CHANNEL	0.056	0	09:06	0.09	0.00	0.09
MC190	CHANNEL	0.023	0	09:09	0.03	0.00	0.34
MC191	CHANNEL	0.000	0	00:00	0.00	0.00	0.17
MC192	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC193	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC194_1	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC194_2	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC195	CHANNEL	0.006	0	09:08	0.03	0.00	0.05
MC196	CHANNEL	0.071	0	09:05	0.05	0.01	0.75
MC197	CHANNEL	0.262	0	09:05	0.20	0.04	0.56
MC198	CHANNEL	0.024	0	09:06	0.08	0.01	0.22
MC199	CHANNEL	0.073	0	09:06	0.27	0.01	0.20
MC2	CHANNEL	0.106	0	09:11	0.15	0.00	0.11
MC20	CHANNEL	0.118	0	09:09	0.20	0.00	0.08
MC200	CHANNEL	0.286	0	09:07	0.64	0.04	0.25
MC201	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC202	CHANNEL	0.084	0	09:07	0.06	0.01	0.54
MC203	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC204	CHANNEL	0.000	0	00:00	0.00	0.00	0.11
MC205	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC206	CHANNEL	0.371	0	09:17	0.31	0.01	0.13
MC207	CHANNEL	0.508	0	09:07	0.26	0.07	0.77
MC208	CHANNEL	1.134	0	09:12	0.57	0.95	0.52
MC209	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC21	CHANNEL	0.221	0	09:07	0.89	0.00	0.05
MC210	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC211	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC212	CHANNEL	1.056	0	09:09	0.74	0.15	0.43
MC213	CHANNEL	0.130	0	09:09	0.14	0.00	0.11

MC214_1	CHANNEL	0.328	0	09:16	0.27	0.01	0.12
MC214_2	CHANNEL	0.057	0	09:18	0.11	0.00	0.08
MC215	CHANNEL	0.159	0	09:13	0.13	0.00	0.13
MC216	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC217	CHANNEL	0.000	0	00:00	0.00	0.00	0.09
MC218	CHANNEL	0.000	0	00:00	0.00	0.00	0.19
MC219	CHANNEL	0.126	0	09:05	0.24	0.00	0.08
MC22	CHANNEL	0.033	0	09:09	0.19	0.00	0.04
MC220	CHANNEL	0.413	0	09:05	0.23	0.04	0.63
MC221	CHANNEL	0.005	0	09:08	0.01	0.00	0.19
MC223	CHANNEL	0.004	0	09:08	0.12	0.00	0.05
MC224	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC225	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC226	CHANNEL	0.173	0	09:13	0.17	0.00	0.12
MC227	CHANNEL	0.350	0	09:17	0.19	0.02	0.16
MC228	CHANNEL	0.094	0	09:13	0.13	0.00	0.09
MC229	CHANNEL	0.030	0	10:17	0.11	0.00	0.07
MC23	CHANNEL	0.179	0	09:08	0.47	0.02	0.17
MC230	CHANNEL	0.367	0	09:12	0.45	0.00	0.10
MC231	CHANNEL	0.231	0	09:50	0.12	0.02	0.56
MC232	CHANNEL	0.122	0	09:11	0.23	0.00	0.08
MC24	CHANNEL	1.735	0	09:08	0.99	0.01	0.15
MC25	CHANNEL	0.036	0	09:06	0.13	0.00	0.05
MC26	CHANNEL	0.013	0	09:06	0.04	0.00	0.06
MC27	CHANNEL	0.263	0	09:11	0.50	0.00	0.08
MC28	CHANNEL	0.748	0	09:24	0.81	0.00	0.11
MC29	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC3	CHANNEL	0.821	0	09:09	0.71	0.01	0.12
MC30	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC31	CHANNEL	0.026	0	09:06	0.06	0.00	0.15
MC32	CHANNEL	0.131	0	09:10	0.23	0.00	0.08
MC33	CHANNEL	0.212	0	09:11	0.34	0.00	0.10
MC34	CHANNEL	0.089	0	09:09	0.37	0.00	0.05
MC35	CHANNEL	0.061	0	09:15	0.08	0.00	0.15
MC36	CHANNEL	0.062	0	09:13	0.12	0.00	0.08
MC37	CHANNEL	0.149	0	09:06	0.60	0.01	0.14
MC38	CHANNEL	0.684	0	09:23	0.58	0.01	0.12
MC39	CHANNEL	0.567	0	09:09	0.26	0.01	0.22
MC4	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC40	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC41	CHANNEL	0.040	0	09:14	0.04	0.00	0.16

MC42	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC43	CHANNEL	0.000	0	00:00	0.00	0.00	0.15
MC44	CHANNEL	0.007	0	09:20	0.02	0.00	0.07
MC45	CHANNEL	0.019	0	09:08	0.06	0.00	0.06
MC46	CHANNEL	0.027	0	09:08	0.07	0.00	0.08
MC47	CHANNEL	0.633	0	09:22	0.48	0.01	0.13
MC48	CHANNEL	0.000	0	00:00	0.00	0.00	0.50
MC49	CHANNEL	0.000	0	00:00	0.00	0.00	0.30
MC5	CHANNEL	0.074	0	09:05	0.25	0.00	0.06
MC50	CHANNEL	0.013	0	09:18	0.04	0.00	0.06
MC51	CHANNEL	0.015	0	09:06	0.05	0.00	0.06
MC52	CHANNEL	0.015	0	09:06	0.16	0.00	0.03
MC53	CHANNEL	0.023	0	09:07	0.07	0.00	0.08
MC54	CHANNEL	0.041	0	09:09	0.10	0.00	0.07
MC55	CHANNEL	0.013	0	09:15	0.01	0.00	0.17
MC56	CHANNEL	0.001	0	09:08	0.02	0.00	0.02
MC57	CHANNEL	0.019	0	09:15	0.04	0.00	0.07
MC58	CHANNEL	0.016	0	09:13	0.04	0.00	0.17
MC59	CHANNEL	0.028	0	09:07	0.11	0.00	0.05
MC6	CHANNEL	0.442	0	09:07	1.09	0.02	0.17
MC62	CHANNEL	0.000	0	00:00	0.00	0.00	0.19
MC64	CHANNEL	0.405	0	09:10	0.30	0.00	0.17
MC65	CHANNEL	0.005	0	09:08	0.02	0.00	0.06
MC66	CHANNEL	0.013	0	09:08	0.12	0.00	0.10
MC67	CHANNEL	0.005	0	09:08	0.01	0.00	0.22
MC68	CHANNEL	0.125	0	09:09	0.18	0.00	0.09
MC69	CHANNEL	0.114	0	09:07	0.09	0.00	0.25
MC7	CHANNEL	0.485	0	09:08	0.21	0.13	0.70
MC70	CHANNEL	0.192	0	09:08	0.44	0.00	0.07
MC71	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC72	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC73	CHANNEL	0.613	0	09:21	0.56	0.01	0.12
MC74	CHANNEL	0.066	0	09:25	0.07	0.00	0.14
MC75	CHANNEL	0.557	0	09:18	0.41	0.01	0.13
MC76	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC77	CHANNEL	0.025	0	09:07	0.09	0.00	0.05
MC78	CHANNEL	0.083	0	09:07	0.08	0.00	0.19
MC79	CHANNEL	0.075	0	09:09	0.22	0.00	0.06
MC8	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC80	CHANNEL	0.341	0	09:12	0.32	0.31	0.41
MC82	CHANNEL	0.000	0	00:00	0.00	0.00	0.14

MC83	CHANNEL	0.000	0	00:00	0.00	0.00	0.14
MC84	CHANNEL	0.186	0	09:07	0.55	0.00	0.06
MC85	CHANNEL	0.044	0	09:08	0.08	0.00	0.08
MC86	CHANNEL	0.280	0	09:08	1.24	0.01	0.13
MC87	CHANNEL	0.182	0	09:07	0.18	0.00	0.17
MC89	CHANNEL	0.066	0	09:09	0.07	0.00	0.11
MC9	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC90	CHANNEL	0.047	0	09:09	0.15	0.00	0.06
MC91	CHANNEL	0.043	0	09:14	0.16	0.00	0.05
MC92	CHANNEL	0.070	0	09:08	0.28	0.00	0.05
MC93	CHANNEL	0.042	0	09:08	0.24	0.00	0.04
MC97	CHANNEL	0.039	0	09:07	0.22	0.00	0.04
MC98	CHANNEL	0.075	0	09:07	0.42	0.00	0.04
MC99	CHANNEL	0.012	0	09:07	0.05	0.00	0.05
MJ-C5	CONDUIT	0.121	0	09:11	0.51	0.58	0.63
MJ-C6	CONDUIT	0.118	0	09:15	0.56	0.02	0.17
MJ-C7	CONDUIT	0.109	0	09:21	0.50	0.10	0.30
MJ-C8	CONDUIT	0.109	0	09:22	0.98	0.03	0.18
OL5	ORIFICE	0.088	0	09:54			
OL1	DUMMY	0.175	0	10:31			
OL10	DUMMY	0.072	0	09:09			
OL11	DUMMY	0.196	0	09:12			
OL12	DUMMY	0.164	0	09:12			
OL13	DUMMY	0.164	0	09:26			
OL14	DUMMY	0.316	0	09:10			
OL15	DUMMY	0.286	0	09:07			
OL16	DUMMY	0.021	0	09:08			
OL17	DUMMY	0.054	0	09:07			
OL18	DUMMY	0.074	0	09:07			
OL19	DUMMY	0.138	0	09:10			
OL2	DUMMY	0.040	0	09:05			
OL20	DUMMY	0.043	0	09:05			
OL21	DUMMY	0.000	0	00:00			
OL22	DUMMY	0.004	0	09:08			
OL23	DUMMY	0.157	0	09:11			
OL24	DUMMY	0.011	0	09:05			
OL25	DUMMY	0.316	0	09:50			
OL26	DUMMY	0.032	0	09:46			
OL27	DUMMY	0.219	0	09:14			
OL28	DUMMY	0.316	0	09:17			
OL29	DUMMY	0.102	0	09:08			

OL3	DUMMY	0.277	0	09:08
OL30	DUMMY	0.000	0	00:00
OL31	DUMMY	0.017	0	09:08
OL32	DUMMY	0.164	0	09:09
OL33	DUMMY	0.000	0	00:00
OL34	DUMMY	0.316	0	09:12
OL35	DUMMY	0.017	0	09:13
OL36	DUMMY	0.029	0	09:18
OL37	DUMMY	0.310	0	09:19
OL38	DUMMY	0.316	0	09:13
OL39	DUMMY	0.021	0	09:09
OL4	DUMMY	0.011	0	09:06
OL40	DUMMY	0.069	0	09:07
OL41	DUMMY	0.000	0	00:00
OL42	DUMMY	0.129	0	09:09
OL43	DUMMY	0.000	0	00:00
OL44	DUMMY	0.000	0	00:00
OL45	DUMMY	0.073	0	09:13
OL46	DUMMY	0.087	0	09:09
OL47	DUMMY	0.039	0	09:09
OL48	DUMMY	0.000	0	00:00
OL49	DUMMY	0.000	0	00:00
OL50	DUMMY	0.001	0	09:15
OL51	DUMMY	0.100	0	09:08
OL52	DUMMY	0.070	0	09:08
OL53	DUMMY	0.082	0	09:09
OL6	DUMMY	0.009	0	09:05
OL7	DUMMY	0.155	0	09:09
OL8	DUMMY	0.006	0	09:09
OL9	DUMMY	0.316	0	09:07

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Flow Classification Summary
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	Adjusted	Fraction of Time in Flow Class							
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl

C_dummy	1.00	0.00	0.00	0.00	0.08	0.92	0.00	0.00	0.01	0.00
C1	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.56	0.00
C100	1.00	0.00	0.00	0.00	0.78	0.00	0.00	0.22	0.00	0.00
C106	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.94	0.00
C108	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C110	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C111	1.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C113	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C114	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C115	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C116	1.00	0.66	0.05	0.00	0.29	0.00	0.00	0.00	0.52	0.00
C118	1.00	0.39	0.23	0.00	0.38	0.00	0.00	0.00	0.43	0.00
C119_1	1.00	0.46	0.16	0.00	0.38	0.00	0.00	0.00	0.43	0.00
C119_2	1.00	0.00	0.00	0.00	0.74	0.00	0.00	0.26	0.00	0.00
C123	1.00	0.00	0.00	0.00	0.68	0.00	0.00	0.32	0.17	0.00
C124	1.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50	0.00	0.00
C125	1.00	0.00	0.00	0.00	0.74	0.01	0.00	0.24	0.00	0.00
C126	1.00	0.00	0.00	0.00	0.75	0.00	0.00	0.25	0.00	0.00
C127	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C128	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C129	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.13	0.00
C130	1.00	0.00	0.00	0.00	0.40	0.00	0.00	0.60	0.20	0.00
C145	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C147	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C150	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C151	1.00	0.81	0.05	0.00	0.13	0.00	0.00	0.00	0.60	0.00
C156	1.00	0.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C159	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C160	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C161	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C164	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.32	0.00
C165	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C167	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.03	0.00
C185	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.92	0.00	0.00
C186	1.00	0.00	0.00	0.00	0.35	0.00	0.00	0.65	0.04	0.00
C187	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.86	0.00
C188	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C189	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C190	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C193	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C194	1.00	0.21	0.01	0.00	0.16	0.00	0.00	0.62	0.05	0.00

C2	1.00	0.00	0.00	0.00	0.68	0.00	0.00	0.31	0.36	0.00
C200-	1.00	0.00	0.00	0.00	0.06	0.12	0.00	0.83	0.03	0.00
C205	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C206	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C207	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.01	0.00
C211	1.00	0.00	0.22	0.00	0.77	0.00	0.01	0.00	0.00	0.00
C212	1.00	0.23	0.00	0.00	0.27	0.00	0.00	0.50	0.00	0.00
C213	1.00	0.23	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
C228	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.84	0.00
C229	1.00	0.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C230	1.00	0.00	0.88	0.00	0.12	0.00	0.00	0.00	0.58	0.00
C231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
C232	1.00	0.44	0.31	0.00	0.26	0.00	0.00	0.00	0.53	0.00
C233	1.00	0.00	0.44	0.00	0.56	0.00	0.00	0.00	0.27	0.00
C234	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C235	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C239	1.00	0.22	0.00	0.00	0.20	0.00	0.00	0.58	0.56	0.00
C240	1.00	0.22	0.00	0.00	0.13	0.00	0.00	0.65	0.00	0.00
C244	1.00	0.22	0.00	0.00	0.13	0.00	0.00	0.64	0.01	0.00
C245	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C246	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C248	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.00	0.00
C250	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C251	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C252	1.00	0.00	0.00	0.00	0.02	0.07	0.00	0.91	0.03	0.00
C253	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00
C254	1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.99	0.00	0.00
C255	1.00	0.22	0.01	0.00	0.01	0.00	0.00	0.76	0.00	0.00
C256	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C257	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C258	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C259	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	1.00	0.00	0.00	0.00	0.05	0.01	0.00	0.95	0.02	0.00
C260	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C263	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C269	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C28	1.00	0.00	0.00	0.00	0.84	0.16	0.00	0.00	0.92	0.00
C281	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C284	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.99	0.00	0.00
C285	1.00	0.21	0.01	0.00	0.08	0.00	0.00	0.70	0.02	0.00

C288	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C289	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C292	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C293	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.34	0.00
C3	1.00	0.00	0.00	0.00	0.47	0.01	0.00	0.51	0.27	0.00
C343	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.90	0.01	0.00
C344	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.89	0.00
C345	1.00	0.00	0.00	0.00	0.31	0.00	0.00	0.69	0.00	0.00
C346	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C347	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.32	0.00
C348	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
C349	1.00	0.00	0.00	0.00	0.97	0.02	0.00	0.01	0.96	0.00
C350	1.00	0.00	0.00	0.00	0.52	0.48	0.00	0.00	0.01	0.00
C351	1.00	0.81	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C352	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.21	0.00
C353	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C437	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C48	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.97	0.00
C50	1.00	0.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C53	1.00	0.00	0.00	0.00	0.03	0.06	0.00	0.91	0.03	0.00
C54	1.00	0.00	0.00	0.00	0.06	0.00	0.00	0.94	0.01	0.00
C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C653	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C655	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.00	0.00
C656	1.00	0.00	0.00	0.00	0.45	0.00	0.00	0.55	0.00	0.00
C657	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.62	0.00
C658	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C660	1.00	0.00	0.00	0.00	0.14	0.38	0.00	0.47	0.31	0.00
C662	1.00	0.00	0.01	0.00	0.90	0.09	0.00	0.00	0.00	0.00
C663	1.00	0.00	0.00	0.00	0.17	0.00	0.00	0.82	0.02	0.00
C664	1.00	0.00	0.00	0.00	0.37	0.63	0.00	0.00	0.90	0.00
C665	1.00	0.00	0.93	0.00	0.07	0.00	0.00	0.00	0.61	0.00
C666	1.00	0.00	0.00	0.00	0.03	0.96	0.00	0.00	0.23	0.00
C667	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C668	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C669	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.07	0.00
C670	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C671	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C672	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C673	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.89	0.04	0.00
C674	1.00	0.03	0.00	0.00	0.17	0.80	0.00	0.00	0.07	0.00
C685	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C686	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C687	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C688	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.81	0.00
C689	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C690	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C7	1.00	0.00	0.00	0.00	0.58	0.42	0.00	0.00	0.02	0.00
C700	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
C701	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C702	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.07	0.00
C703	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C704	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.08	0.00
C705	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C707	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C708	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C709	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C710	1.00	0.00	0.00	0.00	0.00	0.02	0.00	0.97	0.01	0.00
C711	1.00	0.01	0.00	0.00	0.20	0.00	0.00	0.79	0.08	0.00
C712	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
C713	1.00	0.01	0.00	0.00	0.34	0.00	0.00	0.65	0.08	0.00
C714	1.00	0.00	0.02	0.00	0.16	0.00	0.82	0.00	0.00	0.00
C715	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C716	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.98	0.00	0.00
C717	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.00	0.00
C718	1.00	0.02	0.75	0.00	0.23	0.00	0.00	0.00	0.57	0.00
C727	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C734	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C735	1.00	0.00	0.00	0.00	0.08	0.00	0.00	0.92	0.00	0.00
C736	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C737	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C739	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C740	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C741	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C751	1.00	0.01	0.00	0.00	0.09	0.18	0.00	0.73	0.10	0.00
C752	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
C753	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.00	0.00
C754	1.00	0.00	0.00	0.00	0.82	0.18	0.00	0.00	0.92	0.00
C755	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.03	0.00

C756	1.00	0.00	0.00	0.00	0.14	0.00	0.00	0.86	0.00	0.00
C757	1.00	0.01	0.00	0.00	0.03	0.00	0.00	0.96	0.00	0.00
C758	1.00	0.01	0.00	0.00	0.18	0.81	0.00	0.00	0.01	0.00
C759	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C760	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C762	1.00	0.83	0.12	0.00	0.05	0.00	0.00	0.00	0.61	0.00
C763	1.00	0.00	0.07	0.00	0.69	0.23	0.00	0.00	0.00	0.00
C764	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
C765	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.87	0.00
C766	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.86	0.00
C767	1.00	0.01	0.00	0.00	0.04	0.00	0.00	0.95	0.00	0.00
C77	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C8	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00
C80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C94	1.00	0.00	0.00	0.00	0.82	0.18	0.00	0.00	0.47	0.00
CB72	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC_C6	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.53	0.00
MC10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC100	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC101	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC102	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.10	0.00
MC103	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC104	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC105	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.21	0.00
MC107	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.91	0.00
MC108	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.62	0.00
MC109	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.79	0.00
MC11	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC12	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC120	1.00	0.00	0.05	0.00	0.95	0.00	0.00	0.00	0.87	0.00
MC121	1.00	0.00	0.05	0.00	0.95	0.00	0.00	0.00	0.87	0.00
MC122	1.00	0.00	0.05	0.00	0.95	0.00	0.00	0.00	0.87	0.00
MC123	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.00	0.00
MC124	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC125	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC126	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MC128	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC129	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC130	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.98	0.00

MC131	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.12	0.00
MC132	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC133	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.78	0.00
MC135	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.70	0.00
MC136	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.09	0.00
MC137	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC139	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.27	0.00
MC14	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.77	0.00
MC141	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.75	0.00
MC142	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC143	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.08	0.00
MC144	1.00	0.00	0.00	0.00	0.17	0.83	0.00	0.00	0.12	0.00
MC145	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.19	0.00
MC146	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.31	0.00
MC147	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC148	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC149	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC150	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC151	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.66	0.00
MC152	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.39	0.00
MC153	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00
MC154	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC155	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC156	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC157	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC158	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC159	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC16	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC160	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC161	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC162	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC163	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC164	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC165	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.46	0.00
MC166	1.00	0.00	0.01	0.00	0.93	0.06	0.00	0.00	0.90	0.00
MC167	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC168	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.36	0.00
MC169	1.00	0.22	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00
MC17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC170	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.39	0.00

MC171	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC172	1.00	0.00	0.00	0.00	0.76	0.24	0.00	0.00	0.97	0.00
MC173	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC174	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC175	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC176	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC177	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.35	0.00
MC178	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC179	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC18	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.61	0.00
MC180	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC181	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC182_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.75	0.00
MC182_2	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.01	0.00
MC182_3	1.00	0.01	0.21	0.00	0.79	0.00	0.00	0.00	0.00	0.00
MC182_5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC183	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.07	0.00
MC184	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.82	0.00
MC185	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC186	1.00	0.00	0.00	0.00	0.84	0.16	0.00	0.00	0.93	0.00
MC187	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC188	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC189	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.97	0.00
MC19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC190	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC191	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC192	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC193	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_1	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_2	1.00	0.74	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC195	1.00	0.00	0.74	0.00	0.26	0.00	0.00	0.00	0.61	0.00
MC196	1.00	0.00	0.19	0.00	0.81	0.00	0.00	0.00	0.56	0.00
MC197	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.52	0.00
MC198	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC199	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC200	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC201	1.00	0.86	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC202	1.00	0.01	0.85	0.00	0.14	0.00	0.00	0.00	0.62	0.00
MC203	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC204	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC205	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC206	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.62	0.00
MC207	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.58	0.00
MC208	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC209	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC21	1.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
MC210	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC211	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC212	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.79	0.00
MC213	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC214_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC214_2	1.00	0.00	0.04	0.00	0.95	0.00	0.00	0.00	0.93	0.00
MC215	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC216	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC217	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC218	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC219	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.08	0.00
MC22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC220	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.87	0.00
MC221	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC223	1.00	0.00	0.00	0.00	0.76	0.23	0.00	0.00	0.90	0.00
MC224	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC225	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC226	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC227	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.00
MC228	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.18	0.00
MC229	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.38	0.00
MC23	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.70	0.00
MC230	1.00	0.00	0.01	0.00	0.98	0.00	0.00	0.00	0.91	0.00
MC231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC232	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC24	1.00	0.20	0.00	0.00	0.79	0.01	0.00	0.00	0.00	0.00
MC25	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC26	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC27	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.03	0.00
MC28	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.02	0.00
MC29	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
MC30	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00

MC32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC34	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC35	1.00	0.00	0.11	0.00	0.89	0.00	0.00	0.00	0.73	0.00
MC36	1.00	0.00	0.11	0.00	0.89	0.00	0.00	0.00	0.00	0.00
MC37	1.00	0.00	0.00	0.00	0.35	0.65	0.00	0.00	0.33	0.00
MC38	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.25	0.00
MC39	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.45	0.00
MC4	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC40	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC41	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC42	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC43	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC44	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.62	0.00
MC45	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.60	0.00
MC46	1.00	0.00	0.20	0.00	0.80	0.00	0.00	0.00	0.58	0.00
MC47	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MC48	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC49	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC50	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC51	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC52	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC53	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC54	1.00	0.00	0.15	0.00	0.85	0.00	0.00	0.00	0.05	0.00
MC55	1.00	0.00	0.15	0.00	0.85	0.00	0.00	0.00	0.68	0.00
MC56	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.61	0.00
MC57	1.00	0.00	0.15	0.00	0.85	0.00	0.00	0.00	0.68	0.00
MC58	1.00	0.00	0.15	0.00	0.85	0.00	0.00	0.00	0.00	0.00
MC59	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC6	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.20	0.00
MC62	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC64	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC65	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC66	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC67	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC68	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC69	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27	0.00
MC7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC70	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC71	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC72	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC73	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC74	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.33	0.00
MC75	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC76	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC77	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.15	0.00
MC78	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC79	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC8	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC80	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC82	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC83	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC84	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.76	0.00
MC85	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC86	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.11	0.00
MC87	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC89	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC9	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC90	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC91	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.08	0.00
MC92	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC93	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC97	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.15	0.00
MC98	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.73	0.00
MC99	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MJ-C5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MJ-C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MJ-C7	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
MJ-C8	1.00	0.03	0.00	0.00	0.82	0.14	0.00	0.00	0.05	0.00

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Conduit Surcharge Summary
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	Hours Full			Hours Above Full	Hours Capacity
Conduit	Both Ends	Upstream	Dnstream	Normal Flow	Limited
C100	0.01	0.01	0.01	0.41	0.01

C106	0.07	0.07	0.15	0.01	0.01
C118	0.01	0.01	1.07	0.01	0.01
C119_2	0.01	0.01	1.35	0.34	0.01
C123	0.01	0.01	1.60	0.05	0.01
C124	0.01	0.01	0.01	0.43	0.01
C125	0.01	0.01	2.63	0.01	0.01
C126	3.58	3.58	4.01	0.23	0.01
C145	0.01	0.28	0.01	0.57	0.01
C147	0.01	0.01	0.01	0.32	0.01
C150	0.01	0.02	0.01	0.54	0.01
C167	0.01	0.01	0.01	0.18	0.01
C2	0.05	0.15	0.05	0.25	0.05
C200-	0.17	0.17	0.21	0.01	0.01
C211	0.01	0.01	14.84	0.01	0.01
C228	1.20	1.20	2.85	0.01	0.01
C230	0.38	0.38	0.39	0.01	0.01
C231	0.71	0.71	0.72	0.01	0.06
C232	0.53	0.53	0.63	0.01	0.02
C233	0.63	0.63	0.71	0.01	0.04
C239	1.18	1.18	1.34	0.01	0.01
C240	0.93	0.93	1.01	0.01	0.01
C244	0.01	0.01	0.61	0.01	0.01
C248	0.11	0.23	0.11	0.32	0.11
C252	0.07	0.07	0.11	0.01	0.01
C253	0.01	0.12	0.01	0.18	0.01
C255	0.01	0.01	0.04	0.01	0.01
C256	0.07	0.07	0.11	0.01	0.01
C258	0.01	0.12	0.01	0.30	0.01
C260	0.01	0.01	0.01	0.12	0.01
C27	0.01	0.01	0.01	0.15	0.01
C281	0.01	0.01	0.01	0.12	0.01
C284	0.01	0.01	0.01	0.16	0.01
C288	0.01	1.58	0.01	1.74	0.01
C343	0.48	0.49	0.64	0.69	0.31
C344	0.78	0.78	0.99	0.02	0.06
C345	0.71	0.88	0.71	1.05	0.71
C346	0.01	0.01	0.01	0.29	0.01
C348	19.96	19.96	20.00	2.81	0.01
C349	0.01	0.01	20.14	0.01	0.01
C350	0.01	0.23	0.01	0.37	0.01
C5	0.01	0.01	14.99	0.01	0.01

C53	0.01	0.01	0.07	0.01	0.01
C54	0.01	0.01	0.07	0.01	0.01
C653	0.10	0.20	0.10	0.31	0.10
C655	0.11	0.11	0.13	0.01	0.01
C656	0.10	0.11	0.10	0.27	0.10
C658	0.09	0.22	0.09	0.32	0.09
C660	0.01	0.01	0.01	0.10	0.01
C662	0.01	0.01	1.55	3.65	0.01
C663	1.01	1.01	1.40	0.01	0.01
C664	0.68	0.71	0.69	0.87	0.56
C665	0.01	0.01	0.40	0.01	0.01
C666	0.01	0.14	0.01	0.24	0.01
C674	0.89	0.89	1.89	1.89	0.84
C700	0.98	0.98	2.82	2.93	0.01
C701	0.01	0.01	0.01	0.31	0.01
C711	0.01	0.01	1.65	0.01	0.01
C712	2.06	2.06	4.90	1.13	1.11
C713	1.69	1.71	1.90	0.01	0.01
C714	0.76	0.76	0.86	0.03	0.09
C715	0.01	0.17	0.01	0.95	0.01
C716	0.12	0.21	0.12	0.25	0.12
C717	0.13	0.13	0.16	0.01	0.01
C718	0.28	0.28	0.47	0.01	0.01
C751	0.01	0.01	1.28	0.01	0.01
C752	1.56	1.56	2.25	1.37	1.37
C753	0.62	0.69	0.65	0.76	0.58
C754	0.39	0.39	0.71	0.01	0.01
C755	0.92	0.92	1.00	0.01	0.01
C757	0.13	0.13	0.13	0.11	0.10
C762	0.01	0.01	0.25	0.01	0.01
C763	0.01	0.01	19.19	0.01	0.01
C764	0.17	0.58	0.17	0.87	0.17
C765	1.98	1.98	2.02	0.01	0.10
C766	2.02	2.02	2.06	0.38	0.54
C767	0.19	0.24	0.19	0.33	0.19
MC148	0.01	0.01	14.89	0.01	0.01
MC168	0.01	0.01	14.89	0.01	0.01
MC202	0.01	0.01	0.10	0.01	0.01
MC207	0.01	0.01	0.64	0.01	0.01
MC220	0.01	0.01	0.10	0.01	0.01
MC231	0.01	0.01	14.89	0.01	0.01

MC7	0.01	0.01	0.78	0.01	0.01
MJ-C5	0.01	0.24	0.01	0.01	0.01

Analysis begun on: Thu Sep 7 16:19:29 2023
Analysis ended on: Thu Sep 7 16:19:41 2023
Total elapsed time: 00:00:12

100-year storm

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.015)
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WARNING 04: minimum elevation drop used for Conduit C672
WARNING 08: elevation drop exceeds length for Conduit C709
WARNING 03: negative offset ignored for Link C94

*************
Element Count
*************
Number of rain gages ...... 6
Number of subcatchments ... 272
Number of nodes ........... 413
Number of links ........... 451
Number of pollutants ...... 0
Number of land uses ....... 0


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Raingage Summary
****************
                                                  Data       Recording
Name                 Data Source                  Type       Interval
----------------------------------------------------------------------
100-yr_Chicago_4h_current 100-yr_Chicago_4h_current      INTENSITY   10 min.
100-yrChicago_4h_climate_change 100-yrChicago_4h_climate_change INTENSITY   10 min.
100yr-Climate_Change_Chicago_24h 100yr-Climate_Change_Chicago_24h INTENSITY    5 min.
100-yr-Historical-Chicago-24h 100-yr-Historical-Chicago-24h  INTENSITY    5 min.
5yr-Climate_Change_Chicago_24h 5yr-Climate_Change_Chicago_24h INTENSITY    5 min.
5yr-Historical_Chicago_24h 5yr-Historical_Chicago_24h     INTENSITY    5 min.


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Subcatchment Summary
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Name                         Area     Width    %Imperv    %Slope Rain Gage            Outlet
------------------------------------------------------------------------------------------------
Rural_1                      6.93    693.09     40.00    1.5000 100-yr-Historical-Chicago-24h OF55
Rural_10                    33.34   2222.61     40.00    1.5000 100-yr-Historical-Chicago-24h OF46-
Rural_11                     0.47    117.85     40.00    1.5000 100-yr-Historical-Chicago-24h MJ5
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Rural_12	22.22	1481.37	40.00	1.5000	100-yr-Historical-Chicago-24h OF45-
Rural_13	22.63	1508.50	40.00	1.5000	100-yr-Historical-Chicago-24h OF44-
Rural_14	17.01	1133.79	40.00	1.5000	100-yr-Historical-Chicago-24h OF42-
Rural_15	19.30	1286.64	40.00	1.5000	100-yr-Historical-Chicago-24h OF47-
Rural_16	26.34	1756.25	40.00	1.5000	100-yr-Historical-Chicago-24h OF43-
Rural_16-2_1	6.17	617.28	40.00	1.5000	100-yr-Historical-Chicago-24h OF41-
Rural_16-2_2	7.41	740.63	40.00	1.5000	100-yr-Historical-Chicago-24h OF40-
Rural_17	2.77	692.27	40.00	1.5000	100-yr-Historical-Chicago-24h OF28-
Rural_17_1	2.85	711.70	40.00	1.5000	100-yr-Historical-Chicago-24h MJ7
Rural_17_2	15.18	1012.09	40.00	1.5000	100-yr-Historical-Chicago-24h OF34-
Rural_17_4	13.48	898.39	7.00	1.5000	100-yr-Historical-Chicago-24h OF36-
Rural_18	10.27	1027.27	0.00	1.5000	100-yr-Historical-Chicago-24h OF35-
Rural_19	56.92	3794.74	0.00	1.5000	100-yr-Historical-Chicago-24h OF37-
Rural_2	19.33	1932.61	40.00	1.5000	100-yr-Historical-Chicago-24h OF56
Rural_20	24.28	2427.98	0.00	1.5000	100-yr-Historical-Chicago-24h OF38-
Rural_21	97.14	6475.83	0.00	1.5000	100-yr-Historical-Chicago-24h OF48-
Rural_22	42.10	2806.98	7.00	1.5000	100-yr-Historical-Chicago-24h OF58
Rural_23	51.76	3450.73	16.00	1.5000	100-yr-Historical-Chicago-24h OF60
Rural_24	7.67	1916.28	39.00	1.5000	100-yr-Historical-Chicago-24h OF59
Rural_25	39.85	2656.49	12.00	1.5000	100-yr-Historical-Chicago-24h OF58
Rural_26	32.24	2149.19	0.00	1.5000	100-yr-Historical-Chicago-24h OF61
Rural_27	9.02	901.70	40.00	1.5000	100-yr-Historical-Chicago-24h OF39-
Rural_29	17.03	1135.65	40.00	1.5000	100-yr-Historical-Chicago-24h OF47-
Rural_3	7.28	727.85	40.00	1.5000	100-yr-Historical-Chicago-24h OF57
Rural_4	27.11	1807.37	40.00	1.5000	100-yr-Historical-Chicago-24h OF53
Rural_5	11.25	1124.69	40.00	1.5000	100-yr-Historical-Chicago-24h OF51
Rural_6	13.81	1380.92	40.00	1.5000	100-yr-Historical-Chicago-24h OF52
Rural_7	17.28	1152.22	40.00	1.5000	100-yr-Historical-Chicago-24h OF49-
Rural_8	12.76	850.42	40.00	1.5000	100-yr-Historical-Chicago-24h OF50
Rural_9	22.61	1507.37	40.00	1.5000	100-yr-Historical-Chicago-24h OF54
UC1	1.33	443.23	20.00	0.5000	100-yr-Historical-Chicago-24h MJ71
UC10	0.27	88.36	55.00	0.5000	100-yr-Historical-Chicago-24h MJ130
UC100	0.16	53.27	55.00	0.5000	100-yr-Historical-Chicago-24h OF4-M
UC11	1.25	416.49	55.00	0.5000	100-yr-Historical-Chicago-24h MJ130
UC111	0.06	18.46	55.00	0.5000	100-yr-Historical-Chicago-24h MJ19
UC112	0.70	234.53	55.00	0.5000	100-yr-Historical-Chicago-24h MJ19
UC113	0.59	195.81	55.00	0.5000	100-yr-Historical-Chicago-24h MJ34
UC114	0.17	57.05	55.00	0.5000	100-yr-Historical-Chicago-24h MJ21
UC115	0.24	81.58	20.00	0.5000	100-yr-Historical-Chicago-24h MJ23
UC116	0.57	190.77	55.00	0.5000	100-yr-Historical-Chicago-24h MJ13
UC117	0.39	129.17	55.00	0.5000	100-yr-Historical-Chicago-24h MJ13

UC118	0.21	71.29	55.00	0.5000	100-yr-Historical-Chicago-24h MJ13
UC119	0.33	109.09	55.00	0.5000	100-yr-Historical-Chicago-24h MJ13
UC12	0.91	302.53	55.00	0.5000	100-yr-Historical-Chicago-24h MH2_S
UC120	1.43	475.37	55.00	0.5000	100-yr-Historical-Chicago-24h MJ135
UC121	0.29	96.14	25.00	0.5000	100-yr-Historical-Chicago-24h MJ26
UC122	0.30	100.59	55.00	0.5000	100-yr-Historical-Chicago-24h MJ105
UC123	0.15	51.62	55.00	0.5000	100-yr-Historical-Chicago-24h MJ87
UC124	0.24	80.00	55.00	0.5000	100-yr-Historical-Chicago-24h MJ74
UC125	0.30	30.34	25.00	0.5000	100-yr-Historical-Chicago-24h MJ25
UC126	0.08	26.84	55.00	0.5000	100-yr-Historical-Chicago-24h MJ114
UC127	0.40	134.31	55.00	0.5000	100-yr-Historical-Chicago-24h MJ120
UC128	0.03	8.82	55.00	0.5000	100-yr-Historical-Chicago-24h MJ114
UC129	0.04	14.37	55.00	0.5000	100-yr-Historical-Chicago-24h MJ103
UC13	1.12	372.27	55.00	0.5000	100-yr-Historical-Chicago-24h MH3_S
UC130	0.16	54.47	25.00	0.5000	100-yr-Historical-Chicago-24h MJ44
UC131	0.07	22.34	55.00	0.5000	100-yr-Historical-Chicago-24h MJ97
UC132	0.12	38.54	55.00	0.5000	100-yr-Historical-Chicago-24h MJ91
UC133	0.26	85.91	20.00	0.5000	100-yr-Historical-Chicago-24h MJ35
UC134	0.07	23.97	55.00	0.5000	100-yr-Historical-Chicago-24h MJ77
UC135	0.35	118.31	20.00	0.5000	100-yr-Historical-Chicago-24h MJ27
UC136	0.02	7.51	55.00	0.5000	100-yr-Historical-Chicago-24h MJ61
UC137	0.16	53.32	25.00	0.5000	100-yr-Historical-Chicago-24h MJ30
UC138	0.20	65.32	25.00	0.5000	100-yr-Historical-Chicago-24h MJ14
UC139	0.05	15.79	25.00	0.5000	100-yr-Historical-Chicago-24h MJ10
UC14	0.46	152.40	55.00	0.5000	100-yr-Historical-Chicago-24h MJ143
UC140	0.13	43.41	25.00	0.5000	100-yr-Historical-Chicago-24h MJ1
UC141	0.27	91.09	25.00	0.5000	100-yr-Historical-Chicago-24h MJ1
UC142	0.13	43.51	25.00	0.5000	100-yr-Historical-Chicago-24h MJ2
UC143	0.59	195.95	25.00	0.5000	100-yr-Historical-Chicago-24h MJ2
UC144	0.34	114.43	25.00	0.5000	100-yr-Historical-Chicago-24h MJ31
UC145	0.38	128.10	25.00	0.5000	100-yr-Historical-Chicago-24h MJ31
UC146	0.45	151.56	25.00	0.5000	100-yr-Historical-Chicago-24h MJ30
UC147	0.16	51.99	25.00	0.5000	100-yr-Historical-Chicago-24h MJ20
UC148	0.17	55.60	25.00	0.5000	100-yr-Historical-Chicago-24h MJ32
UC149	0.30	98.86	25.00	0.5000	100-yr-Historical-Chicago-24h MJ32
UC15	0.22	72.23	55.00	0.5000	100-yr-Historical-Chicago-24h MH8_S
UC150	0.63	210.22	20.00	0.5000	100-yr-Historical-Chicago-24h MJ27
UC151	0.23	78.08	55.00	0.5000	100-yr-Historical-Chicago-24h MJ57
UC152	0.15	48.86	55.00	0.5000	100-yr-Historical-Chicago-24h MJ3
UC153	0.48	159.93	55.00	0.5000	100-yr-Historical-Chicago-24h MJ3
UC154	0.65	217.20	55.00	0.5000	100-yr-Historical-Chicago-24h MJ3

UC155	0.19	62.55	55.00	0.5000	100-yr-Historical-Chicago-24h MJ45
UC156	0.54	181.16	55.00	0.5000	100-yr-Historical-Chicago-24h MJ25
UC157	0.46	152.01	55.00	0.5000	100-yr-Historical-Chicago-24h OF31-M
UC158	0.73	243.70	5.00	0.5000	100-yr-Historical-Chicago-24h MH_11
UC159	0.12	38.43	55.00	0.5000	100-yr-Historical-Chicago-24h CBMH5_ON
UC16	0.50	166.28	55.00	0.5000	100-yr-Historical-Chicago-24h CB15
UC160	1.93	642.25	55.00	0.5000	100-yr-Historical-Chicago-24h MJ152
UC161	0.97	324.28	5.00	0.5000	100-yr-Historical-Chicago-24h MJ155
UC162	0.37	122.53	55.00	0.5000	100-yr-Historical-Chicago-24h J127
UC163	0.08	25.95	55.00	0.5000	100-yr-Historical-Chicago-24h CB23
UC164	0.35	116.48	55.00	0.5000	100-yr-Historical-Chicago-24h CB17
UC165	2.97	991.03	35.00	0.5000	100-yr-Historical-Chicago-24h MJ152
UC166	0.53	175.10	5.00	0.5000	100-yr-Historical-Chicago-24h OF62
UC167	0.61	204.17	55.00	0.5000	100-yr-Historical-Chicago-24h OF6-
UC168	0.16	51.90	55.00	0.5000	100-yr-Historical-Chicago-24h MJ63
UC169	1.73	578.26	55.00	0.5000	100-yr-Historical-Chicago-24h MJ154
UC17	0.82	272.45	55.00	0.5000	100-yr-Historical-Chicago-24h MJ125
UC170	1.52	507.66	5.00	0.5000	100-yr-Historical-Chicago-24h MJ155
UC171	1.20	401.37	55.00	0.5000	100-yr-Historical-Chicago-24h MJ153
UC172	2.02	674.77	15.00	0.5000	100-yr-Historical-Chicago-24h MJ154
UC173	2.17	724.79	55.00	0.5000	100-yr-Historical-Chicago-24h MJ152
UC174	1.55	516.31	55.00	0.5000	100-yr-Historical-Chicago-24h MJ148
UC175	0.11	36.39	55.00	0.5000	100-yr-Historical-Chicago-24h MJ147
UC176	0.22	74.81	55.00	0.5000	100-yr-Historical-Chicago-24h MJ134
UC177	0.82	272.09	55.00	0.5000	100-yr-Historical-Chicago-24h MJ148
UC178	0.79	263.61	55.00	0.5000	100-yr-Historical-Chicago-24h OF9-M
UC179	0.43	141.99	55.00	0.5000	100-yr-Historical-Chicago-24h OF30-M
UC18	0.68	227.09	55.00	0.5000	100-yr-Historical-Chicago-24h MJ130
UC180	3.20	1067.16	55.00	0.5000	100-yr-Historical-Chicago-24h MJ100
UC181	0.76	254.77	55.00	0.5000	100-yr-Historical-Chicago-24h MJ100
UC182	1.10	367.89	55.00	0.5000	100-yr-Historical-Chicago-24h MJ70
UC183	2.34	778.67	55.00	0.5000	100-yr-Historical-Chicago-24h MJ122
UC184	0.11	35.65	55.00	0.5000	100-yr-Historical-Chicago-24h MJ99
UC185	0.11	35.03	55.00	0.5000	100-yr-Historical-Chicago-24h MJ107
UC186	0.05	15.93	55.00	0.5000	100-yr-Historical-Chicago-24h MJ104
UC187	0.14	45.38	55.00	0.5000	100-yr-Historical-Chicago-24h MJ104
UC188	1.25	417.00	55.00	0.5000	100-yr-Historical-Chicago-24h MJ129
UC189	1.78	592.86	55.00	0.5000	100-yr-Historical-Chicago-24h MJ116
UC19	0.74	247.66	55.00	0.5000	100-yr-Historical-Chicago-24h MJ108
UC190	0.38	127.82	55.00	0.5000	100-yr-Historical-Chicago-24h MJ129
UC191	0.09	29.27	55.00	0.5000	100-yr-Historical-Chicago-24h MJ132

UC192	2.38	792.09	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ134
UC193	0.63	209.65	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ147
UC194	1.71	571.06	55.00	0.5000	100-yr-Historical-Chicago-24h	MH21_S
UC195	1.13	377.67	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ146
UC196	0.60	200.27	55.00	0.5000	100-yr-Historical-Chicago-24h	Gill_RD_Pond
UC197	0.77	256.83	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ124
UC198	0.77	257.37	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ145
UC199	0.23	75.93	55.00	0.5000	100-yr-Historical-Chicago-24h	OF26-M
UC2	0.69	228.67	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ84
UC20	0.91	303.91	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ101
UC200	0.40	132.98	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ119
UC201	1.05	349.75	55.00	0.5000	100-yr-Historical-Chicago-24h	MH34_S
UC202	0.87	290.43	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ139
UC203	0.66	221.28	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ128
UC204	0.79	263.60	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ128
UC205	0.39	130.87	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ112
UC206	2.25	751.40	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ95
UC207	0.96	320.57	55.00	0.5000	100-yr-Historical-Chicago-24h	J1
UC208	0.57	191.63	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ110
UC209	0.38	125.76	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ112
UC21	0.42	139.13	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ103
UC210	1.55	516.08	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ92
UC211	2.79	930.15	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ67
UC212	2.81	937.22	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ22
UC213	4.46	1486.35	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ22
UC214	0.61	203.69	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ7
UC215	1.27	423.54	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ15
UC216	1.99	663.06	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ36
UC217	1.96	652.18	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ36
UC218	1.20	400.42	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ24
UC219	0.14	46.27	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ122
UC22	0.39	130.02	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ89
UC220	0.03	9.20	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ131
UC221	0.13	42.97	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ136
UC222	0.31	104.56	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ135
UC223	0.26	87.52	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ135
UC224	0.37	123.74	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ151
UC225	0.73	243.33	55.00	0.5000	100-yr-Historical-Chicago-24h	MH8_S
UC226	1.64	548.17	5.00	0.5000	100-yr-Historical-Chicago-24h	MH_34
UC227	3.44	1146.33	5.00	0.5000	100-yr-Historical-Chicago-24h	MH_27
UC228	1.69	564.60	5.00	0.5000	100-yr-Historical-Chicago-24h	MH_14

UC229	0.02	7.54	55.00	0.5000	100-yr-Historical-Chicago-24h MJ64
UC23	0.33	111.21	55.00	0.5000	100-yr-Historical-Chicago-24h MJ86
UC24	0.34	114.53	55.00	0.5000	100-yr-Historical-Chicago-24h MJ80
UC25	0.31	104.28	55.00	0.5000	100-yr-Historical-Chicago-24h MJ65
UC26	0.18	58.99	55.00	0.5000	100-yr-Historical-Chicago-24h MJ76
UC27	0.15	50.82	55.00	0.5000	100-yr-Historical-Chicago-24h MJ86
UC28	0.22	72.77	55.00	0.5000	100-yr-Historical-Chicago-24h MJ69
UC29	0.26	85.34	55.00	0.5000	100-yr-Historical-Chicago-24h MJ69
UC3	0.16	54.62	55.00	0.5000	100-yr-Historical-Chicago-24h MJ102
UC30	0.05	17.37	20.00	0.5000	100-yr-Historical-Chicago-24h MJ66
UC300	1.52	505.83	55.00	0.5000	100-yr-Historical-Chicago-24h OF28-
UC301	4.36	1453.53	55.00	0.5000	100-yr-Historical-Chicago-24h OF23-
UC302	0.47	158.17	55.00	0.5000	100-yr-Historical-Chicago-24h OF26-M
UC303	0.55	184.73	55.00	0.5000	100-yr-Historical-Chicago-24h OF27-1
UC304	2.14	712.20	55.00	0.5000	100-yr-Historical-Chicago-24h OF21-
UC305	2.14	714.30	55.00	0.5000	100-yr-Historical-Chicago-24h OF10-
UC306	0.69	229.93	5.00	0.5000	100-yr-Historical-Chicago-24h J1
UC307	0.50	165.17	55.00	0.5000	100-yr-Historical-Chicago-24h OF27-1
UC308	2.74	245.84	55.00	0.5000	100-yr-Historical-Chicago-24h MJ12
UC309	0.46	154.37	55.00	0.5000	100-yr-Historical-Chicago-24h OF17-
UC31	0.33	111.10	20.00	0.5000	100-yr-Historical-Chicago-24h MJ55
UC310	0.71	238.23	55.00	0.5000	100-yr-Historical-Chicago-24h OF19-
UC311	4.49	1495.23	55.00	0.5000	100-yr-Historical-Chicago-24h OF15-
UC312	1.66	554.30	55.00	0.5000	100-yr-Historical-Chicago-24h OF15-
UC313	7.10	2367.87	35.00	0.5000	100-yr-Historical-Chicago-24h CBMH_1
UC314	0.23	77.97	55.00	0.5000	100-yr-Historical-Chicago-24h OF18-M
UC315	0.94	313.53	55.00	0.5000	100-yr-Historical-Chicago-24h OF5-M
UC316	0.64	214.80	55.00	0.5000	100-yr-Historical-Chicago-24h OF5-M
UC317	0.59	197.20	55.00	0.5000	100-yr-Historical-Chicago-24h OF4-M
UC318	0.63	210.60	20.00	0.5000	100-yr-Historical-Chicago-24h OF3-
UC319	2.35	781.77	55.00	0.5000	100-yr-Historical-Chicago-24h OF27-M
UC32	0.12	38.49	20.00	0.5000	100-yr-Historical-Chicago-24h MJ48
UC33	0.80	266.66	20.00	0.5000	100-yr-Historical-Chicago-24h MJ48
UC34	0.62	205.09	20.00	0.5000	100-yr-Historical-Chicago-24h MJ55
UC35	0.06	18.45	55.00	0.5000	100-yr-Historical-Chicago-24h MJ69
UC36	0.05	16.27	55.00	0.5000	100-yr-Historical-Chicago-24h MJ60
UC37	0.10	32.31	20.00	0.5000	100-yr-Historical-Chicago-24h MJ55
UC38	0.41	137.29	20.00	0.5000	100-yr-Historical-Chicago-24h MJ37
UC39	0.14	47.24	55.00	0.5000	100-yr-Historical-Chicago-24h MJ51
UC4	0.40	133.14	55.00	0.5000	100-yr-Historical-Chicago-24h MJ102
UC40	0.09	30.17	55.00	0.5000	100-yr-Historical-Chicago-24h MJ61

UC41	0.05	15.78	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ73
UC42	0.09	30.13	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ73
UC43	0.07	24.64	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ83
UC44	0.06	21.00	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ83
UC45	0.17	56.40	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ89
UC46	0.13	42.55	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ108
UC47	0.15	49.57	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ118
UC48	0.19	63.36	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ118
UC49	0.42	138.36	55.00	0.5000	100-yr-Historical-Chicago-24h	CB20
UC5	0.51	169.28	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ103
UC50	0.29	95.42	55.00	0.5000	100-yr-Historical-Chicago-24h	CB19
UC51	0.63	211.64	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ115
UC52	0.57	189.36	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ131
UC53	0.79	264.40	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ105
UC54	0.77	256.33	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ93
UC55	0.70	233.10	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ87
UC56	0.41	135.07	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ82
UC57	0.35	117.21	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ72
UC58	0.29	97.61	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ64
UC59	0.23	76.57	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ61
UC6	0.22	71.89	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ102
UC60	0.16	52.37	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ61
UC61	0.36	120.37	20.00	0.5000	100-yr-Historical-Chicago-24h	MJ35
UC62	0.69	228.71	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ26
UC63	0.08	26.32	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ18
UC64	0.05	15.69	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ53
UC65	0.14	47.86	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ72
UC66	0.07	23.20	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ79
UC67	0.00	1.18	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ79
UC68	0.24	78.40	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ74
UC69	0.04	11.73	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ78
UC7	0.30	99.82	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ113
UC70	0.05	18.24	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ75
UC71	0.84	220.45	55.00	0.5000	100-yr-Historical-Chicago-24h	Rice_Pond
UC72	0.06	18.71	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ81
UC73	0.36	121.41	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ90
UC74	15.94	4116.06	5.00	0.5000	100-yr-Historical-Chicago-24h	OF24-
UC75	0.21	69.77	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ93
UC76	0.32	105.90	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ81
UC77	0.27	89.05	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ59
UC78	0.39	130.61	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ42

UC79	0.06	18.52	55.00	0.5000	100-yr-Historical-Chicago-24h MJ117
UC8	0.45	148.58	55.00	0.5000	100-yr-Historical-Chicago-24h MJ120
UC80	0.03	9.53	55.00	0.5000	100-yr-Historical-Chicago-24h MJ64
UC81	0.25	81.93	55.00	0.5000	100-yr-Historical-Chicago-24h MJ115
UC82	0.45	151.11	55.00	0.5000	100-yr-Historical-Chicago-24h MJ90
UC83	0.19	61.70	55.00	0.5000	100-yr-Historical-Chicago-24h OF5-M
UC84	1.13	376.24	20.00	0.5000	100-yr-Historical-Chicago-24h MJ9
UC85	0.42	138.40	55.00	0.5000	100-yr-Historical-Chicago-24h MJ74
UC86	0.33	109.61	55.00	0.5000	100-yr-Historical-Chicago-24h MJ59
UC87	0.15	48.47	55.00	0.5000	100-yr-Historical-Chicago-24h MJ56
UC88	0.16	53.96	55.00	0.5000	100-yr-Historical-Chicago-24h MJ52
UC89	0.36	119.67	55.00	0.5000	100-yr-Historical-Chicago-24h MJ52
UC9	0.47	158.00	55.00	0.5000	100-yr-Historical-Chicago-24h MJ127
UC90	0.14	47.36	55.00	0.5000	100-yr-Historical-Chicago-24h MJ58
UC91	0.04	14.63	55.00	0.5000	100-yr-Historical-Chicago-24h MJ47
UC92	0.08	27.04	55.00	0.5000	100-yr-Historical-Chicago-24h MJ47
UC93	0.21	69.53	55.00	0.5000	100-yr-Historical-Chicago-24h MJ38
UC94	0.17	55.62	55.00	0.5000	100-yr-Historical-Chicago-24h MJ38
UC95	0.10	31.80	55.00	0.5000	100-yr-Historical-Chicago-24h MJ46
UC96	0.23	75.23	55.00	0.5000	100-yr-Historical-Chicago-24h MJ29
UC97	0.14	46.20	55.00	0.5000	100-yr-Historical-Chicago-24h MJ29
UC98	0.22	73.89	55.00	0.5000	100-yr-Historical-Chicago-24h MJ47
UC99	0.33	111.47	55.00	0.5000	100-yr-Historical-Chicago-24h MJ17

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
CB15	JUNCTION	181.70	1.40	0.0	
CB16	JUNCTION	181.95	1.58	0.0	
CB17	JUNCTION	180.27	2.86	0.0	
CB18	JUNCTION	181.40	1.68	0.0	
CB19	JUNCTION	181.60	1.50	0.0	
CB20	JUNCTION	181.34	1.76	0.0	
CB21	JUNCTION	180.51	2.49	0.0	
CB22	JUNCTION	181.20	2.30	0.0	
CB23	JUNCTION	181.45	1.85	0.0	
CB26	JUNCTION	179.34	3.28	0.0	

CB27	JUNCTION	182.57	1.72	0.0
CB29	JUNCTION	185.26	0.85	0.0
CB30	JUNCTION	185.15	0.91	0.0
CB30_1	JUNCTION	183.93	1.57	0.0
CB31	JUNCTION	183.49	1.13	0.0
CB32	JUNCTION	183.42	1.22	0.0
CB33	JUNCTION	183.34	1.39	0.0
CB34	JUNCTION	184.40	0.74	0.0
CB35	JUNCTION	184.20	0.95	0.0
CB41	JUNCTION	181.77	0.85	0.0
CB42	JUNCTION	181.15	1.50	0.0
CB-58	JUNCTION	180.43	2.10	0.0
CBMH_1	JUNCTION	181.53	1.47	0.0
CBMH_40	JUNCTION	182.75	2.25	0.0
CBMH_41	JUNCTION	182.52	1.98	0.0
CBMH_42	JUNCTION	182.82	1.68	0.0
CBMH_44	JUNCTION	182.43	1.87	0.0
CBMH_46	JUNCTION	182.00	2.03	0.0
CBMH_62	JUNCTION	182.63	1.56	0.0
CBMH1	JUNCTION	182.55	1.45	0.0
CBMH1_ON	JUNCTION	184.86	1.26	0.0
CBMH10_Main	JUNCTION	179.41	2.02	0.0
CBMH2	JUNCTION	180.73	3.49	0.0
CBMH2_ON	JUNCTION	184.54	2.00	0.0
CBMH3_ON	JUNCTION	184.25	2.33	0.0
CBMH4_ON	JUNCTION	183.99	2.41	0.0
CBMH5	JUNCTION	179.80	2.75	0.0
CBMH5_ON	JUNCTION	184.05	2.30	0.0
CBMH6_ON	JUNCTION	183.89	2.26	0.0
CBMH7	JUNCTION	182.38	1.87	0.0
CBMH7_ON	JUNCTION	183.71	1.58	0.0
CBMH8_ON	JUNCTION	183.26	1.51	0.0
CBMH9_ON	JUNCTION	182.74	1.61	0.0
DCB72	JUNCTION	180.43	1.45	0.0
DICBMH42	JUNCTION	176.65	2.45	0.0
J1	JUNCTION	183.00	2.00	0.0
J101	JUNCTION	180.77	1.30	0.0
J102	JUNCTION	180.30	1.74	0.0
J105	JUNCTION	183.98	1.52	0.0
J106	JUNCTION	183.62	1.13	0.0
J110	JUNCTION	180.82	1.39	0.0

J113	JUNCTION	180.92	1.25	0.0
J115	JUNCTION	183.07	1.93	0.0
J116	JUNCTION	176.45	1.41	0.0
J12	JUNCTION	183.32	3.08	0.0
J125	JUNCTION	178.39	4.50	0.0
J127	JUNCTION	180.71	2.36	0.0
J128	JUNCTION	180.92	2.45	0.0
J15	JUNCTION	180.71	3.09	0.0
J2	JUNCTION	182.87	2.00	0.0
J20	JUNCTION	179.51	3.24	0.0
J24	JUNCTION	177.76	4.94	0.0
J3	JUNCTION	181.58	2.00	0.0
J30	JUNCTION	186.43	2.77	0.0
J31	JUNCTION	185.91	3.09	0.0
J34	JUNCTION	181.75	1.62	0.0
J35	JUNCTION	181.98	1.23	0.0
J36	JUNCTION	179.96	3.79	0.0
J38	JUNCTION	180.00	3.26	0.0
J4	JUNCTION	185.20	2.55	0.0
J42	JUNCTION	179.01	3.19	0.0
J43	JUNCTION	178.80	3.55	0.0
J47	JUNCTION	179.99	2.53	0.0
J48	JUNCTION	180.60	3.90	0.0
J49	JUNCTION	180.92	2.12	0.0
J5	JUNCTION	184.85	3.65	0.0
J50	JUNCTION	178.47	4.13	0.0
J52	JUNCTION	178.68	3.32	0.0
J55	JUNCTION	178.50	3.72	0.0
J6	JUNCTION	181.23	2.00	0.0
J62	JUNCTION	178.38	4.00	0.0
J66	JUNCTION	176.80	1.21	0.0
J67	JUNCTION	176.71	1.02	0.0
J7	JUNCTION	182.39	2.00	0.0
J70	JUNCTION	175.92	1.45	0.0
J78	JUNCTION	0.00	0.30	0.0
J8	JUNCTION	184.40	1.77	0.0
J83	JUNCTION	0.00	0.30	0.0
J91	JUNCTION	178.37	4.55	0.0
J93	JUNCTION	182.16	0.74	0.0
J95	JUNCTION	182.38	0.64	0.0
J98	JUNCTION	181.18	0.86	0.0

MH_1	JUNCTION	181.24	2.76	0.0
MH_11	JUNCTION	183.13	3.33	0.0
MH_14	JUNCTION	183.75	2.84	0.0
MH_15	JUNCTION	182.74	3.11	0.0
MH_16	JUNCTION	182.59	3.03	0.0
MH_17	JUNCTION	182.15	2.72	0.0
MH_2	JUNCTION	180.60	1.90	0.0
MH_27	JUNCTION	183.07	2.54	0.0
MH_29	JUNCTION	183.90	1.74	0.0
MH_30	JUNCTION	183.08	2.19	0.0
MH_34	JUNCTION	183.13	2.94	0.0
MH_35	JUNCTION	182.73	2.96	0.0
MH_36	JUNCTION	182.63	2.91	0.0
MH_37	JUNCTION	182.25	2.93	0.0
MH_38	JUNCTION	182.02	2.87	0.0
MH_39	JUNCTION	181.68	2.80	0.0
MH_43	JUNCTION	182.56	1.74	0.0
MH_45	JUNCTION	182.14	1.89	0.0
MH_47	JUNCTION	181.56	2.77	0.0
MH_56	JUNCTION	183.17	0.83	0.0
MH_57	JUNCTION	182.84	1.26	0.0
MH_58	JUNCTION	182.68	1.46	0.0
MH_59	JUNCTION	183.44	1.06	0.0
MH_61	JUNCTION	183.17	1.33	0.0
MH_63	JUNCTION	182.46	1.79	0.0
MH_64	JUNCTION	182.20	2.23	0.0
MH_65	JUNCTION	181.87	2.45	0.0
MH_66	JUNCTION	181.81	2.42	0.0
MH_67	JUNCTION	181.33	2.72	0.0
MH_68	JUNCTION	181.12	2.23	0.0
MH_69	JUNCTION	180.26	3.94	0.0
MH_70	JUNCTION	179.67	2.41	0.0
MH1	JUNCTION	181.11	2.89	0.0
MH1_Main	JUNCTION	183.85	1.77	0.0
MH10	JUNCTION	179.50	3.65	0.0
MH10__S	JUNCTION	183.15	2.00	0.0
MH10_Main	JUNCTION	176.78	2.27	0.0
MH11	JUNCTION	179.30	3.47	0.0
MH11__S	JUNCTION	182.77	2.00	0.0
MH11_Main	JUNCTION	176.34	2.32	0.0
MH12	JUNCTION	181.20	1.87	0.0

MH13	JUNCTION	178.80	4.45	0.0
MH13_Main	JUNCTION	181.26	1.68	0.0
MH13_Main_	JUNCTION	180.75	1.93	0.0
MH14	JUNCTION	178.35	5.60	0.0
MH14_Main	JUNCTION	180.55	2.15	0.0
MH15	JUNCTION	178.20	5.71	0.0
MH15_Main	JUNCTION	180.49	2.55	0.0
MH16	JUNCTION	178.00	5.20	0.0
MH2	JUNCTION	181.00	2.95	0.0
MH2_Main	JUNCTION	183.35	1.52	0.0
MH2_S	JUNCTION	183.95	2.00	0.0
MH21	JUNCTION	181.12	1.98	0.0
MH21_S	JUNCTION	182.80	2.00	0.0
MH22	JUNCTION	180.69	2.21	0.0
MH23	JUNCTION	180.76	2.04	0.0
MH24	JUNCTION	180.59	2.18	0.0
MH25	JUNCTION	180.10	2.85	0.0
MH25-1	JUNCTION	180.26	2.69	0.0
MH26	JUNCTION	179.76	3.09	0.0
MH3	JUNCTION	180.92	3.19	0.0
MH3_Main	JUNCTION	182.82	2.67	0.0
MH3_S	JUNCTION	184.11	2.00	0.0
MH30	JUNCTION	179.43	2.82	0.0
MH31	JUNCTION	179.33	3.10	0.0
MH32	JUNCTION	179.21	2.82	0.0
MH33	JUNCTION	179.13	2.90	0.0
MH34	JUNCTION	179.06	2.06	0.0
MH34_S	JUNCTION	181.48	2.00	0.0
MH35	JUNCTION	178.95	2.88	0.0
MH36	JUNCTION	178.83	3.13	0.0
MH36_S	JUNCTION	181.97	2.00	0.0
MH37	JUNCTION	179.80	2.54	0.0
MH37_S	JUNCTION	182.34	2.00	0.0
MH38	JUNCTION	179.55	2.72	0.0
MH39	JUNCTION	179.41	2.76	0.0
MH4	JUNCTION	180.70	3.46	0.0
MH4_Main	JUNCTION	181.66	2.60	0.0
MH40	JUNCTION	178.83	3.25	0.0
MH41	JUNCTION	178.68	3.18	0.0
MH41_S	JUNCTION	181.86	2.00	0.0
MH42	JUNCTION	177.44	2.00	0.0

MH43	JUNCTION	177.28	4.82	0.0
MH5	JUNCTION	182.45	2.55	0.0
MH5_Main	JUNCTION	180.75	2.08	0.0
MH6	JUNCTION	182.32	2.68	0.0
MH6_Main	JUNCTION	180.24	3.03	0.0
MH7	JUNCTION	182.10	1.90	0.0
MH7_Main	JUNCTION	180.25	1.77	0.0
MH8	JUNCTION	180.51	3.45	0.0
MH8_Main	JUNCTION	177.56	1.91	0.0
MH8_S	JUNCTION	183.96	2.00	0.0
MH9	JUNCTION	180.27	3.46	0.0
MH9__S	JUNCTION	183.22	2.00	0.0
MH9_Main	JUNCTION	177.61	1.93	0.0
MJ_	JUNCTION	182.63	2.00	0.0
MJ1	JUNCTION	177.47	2.00	0.0
MJ10	JUNCTION	183.50	2.00	0.0
MJ100	JUNCTION	182.26	2.00	0.0
MJ101	JUNCTION	183.69	2.00	0.0
MJ102	JUNCTION	182.86	2.00	0.0
MJ103	JUNCTION	183.01	2.00	0.0
MJ104	JUNCTION	184.20	2.00	0.0
MJ105	JUNCTION	184.47	2.00	0.0
MJ106	JUNCTION	183.57	2.00	0.0
MJ107	JUNCTION	184.16	2.00	0.0
MJ108	JUNCTION	185.68	2.00	0.0
MJ109	JUNCTION	184.90	2.00	0.0
MJ11	JUNCTION	178.72	2.00	0.0
MJ110	JUNCTION	182.03	2.00	0.0
MJ111	JUNCTION	182.56	2.00	0.0
MJ112	JUNCTION	180.63	2.00	0.0
MJ113	JUNCTION	184.24	2.00	0.0
MJ114	JUNCTION	184.53	2.00	0.0
MJ115	JUNCTION	185.42	2.00	0.0
MJ116	JUNCTION	181.97	2.00	0.0
MJ117	JUNCTION	185.54	2.00	0.0
MJ118	JUNCTION	184.71	2.00	0.0
MJ119	JUNCTION	180.21	2.00	0.0
MJ12	JUNCTION	179.00	2.00	0.0
MJ120	JUNCTION	183.93	2.00	0.0
MJ121	JUNCTION	186.66	2.00	0.0
MJ122	JUNCTION	184.25	2.00	0.0

MJ123	JUNCTION	187.14	2.00	0.0
MJ124	JUNCTION	180.38	2.00	0.0
MJ125	JUNCTION	186.11	2.00	0.0
MJ126	JUNCTION	185.15	2.03	0.0
MJ127	JUNCTION	185.86	2.00	0.0
MJ128	JUNCTION	182.09	2.00	0.0
MJ129	JUNCTION	181.77	2.00	0.0
MJ13	JUNCTION	178.60	2.00	0.0
MJ130	JUNCTION	186.07	2.00	0.0
MJ131	JUNCTION	184.25	2.00	0.0
MJ132	JUNCTION	181.74	2.00	0.0
MJ133	JUNCTION	186.56	2.00	0.0
MJ134	JUNCTION	181.39	2.00	0.0
MJ135	JUNCTION	183.25	2.00	0.0
MJ136	JUNCTION	183.36	2.00	0.0
MJ137	JUNCTION	182.43	2.00	0.0
MJ138	JUNCTION	187.83	2.00	0.0
MJ139	JUNCTION	181.93	2.00	0.0
MJ14	JUNCTION	181.49	2.00	0.0
MJ140	JUNCTION	182.17	2.00	0.0
MJ142	JUNCTION	182.62	2.00	0.0
MJ143	JUNCTION	184.16	2.00	0.0
MJ144	JUNCTION	182.85	2.00	0.0
MJ145	JUNCTION	182.53	2.00	0.0
MJ146	JUNCTION	182.36	2.00	0.0
MJ147	JUNCTION	183.01	2.00	0.0
MJ148	JUNCTION	183.01	2.00	0.0
MJ149	JUNCTION	184.00	2.00	0.0
MJ15	JUNCTION	188.53	2.00	0.0
MJ150	JUNCTION	184.44	2.00	0.0
MJ151	JUNCTION	183.38	2.00	0.0
MJ152	JUNCTION	183.70	2.00	0.0
MJ153	JUNCTION	184.32	1.56	0.0
MJ154	JUNCTION	184.48	1.98	0.0
MJ155	JUNCTION	185.18	2.00	0.0
MJ156	JUNCTION	185.85	2.00	0.0
MJ157	JUNCTION	186.21	2.00	0.0
MJ158	JUNCTION	183.48	2.00	0.0
MJ16	JUNCTION	178.64	2.00	0.0
MJ17	JUNCTION	181.83	2.00	0.0
MJ18	JUNCTION	183.36	2.00	0.0

MJ19	JUNCTION	180.99	2.00	0.0
MJ2	JUNCTION	177.75	2.00	0.0
MJ20	JUNCTION	183.28	2.00	0.0
MJ21	JUNCTION	178.93	2.00	0.0
MJ22	JUNCTION	186.16	2.00	0.0
MJ23	JUNCTION	179.26	2.00	0.0
MJ24	JUNCTION	181.81	2.00	0.0
MJ25	JUNCTION	183.46	2.00	0.0
MJ26	JUNCTION	182.88	2.00	0.0
MJ27	JUNCTION	179.82	2.00	0.0
MJ28	JUNCTION	183.09	2.00	0.0
MJ29	JUNCTION	181.04	2.00	0.0
MJ3	JUNCTION	177.39	2.00	0.0
MJ30	JUNCTION	181.35	2.00	0.0
MJ31	JUNCTION	181.07	2.00	0.0
MJ32	JUNCTION	181.94	2.00	0.0
MJ33	JUNCTION	181.69	2.00	0.0
MJ34	JUNCTION	179.69	2.00	0.0
MJ35	JUNCTION	180.16	2.00	0.0
MJ36	JUNCTION	182.67	2.00	0.0
MJ37	JUNCTION	178.64	2.00	0.0
MJ38	JUNCTION	181.67	2.00	0.0
MJ39	JUNCTION	183.95	2.00	0.0
MJ4	JUNCTION	179.70	2.00	0.0
MJ40	JUNCTION	182.92	2.00	0.0
MJ41	JUNCTION	183.49	2.00	0.0
MJ42	JUNCTION	180.66	2.00	0.0
MJ43	JUNCTION	186.65	2.00	0.0
MJ44	JUNCTION	183.40	2.00	0.0
MJ45	JUNCTION	184.79	2.00	0.0
MJ46	JUNCTION	181.56	2.00	0.0
MJ47	JUNCTION	182.83	2.00	0.0
MJ48	JUNCTION	176.45	2.00	0.0
MJ49	JUNCTION	182.90	2.00	0.0
MJ5	JUNCTION	183.63	2.00	0.0
MJ50	JUNCTION	182.60	2.00	0.0
MJ51	JUNCTION	181.03	2.00	0.0
MJ52	JUNCTION	182.59	2.00	0.0
MJ53	JUNCTION	182.25	2.00	0.0
MJ54	JUNCTION	182.45	2.00	0.0
MJ55	JUNCTION	178.53	2.00	0.0

MJ56	JUNCTION	182.92	2.00	0.0
MJ57	JUNCTION	178.83	2.00	0.0
MJ58	JUNCTION	182.42	2.00	0.0
MJ59	JUNCTION	181.95	2.00	0.0
MJ60	JUNCTION	180.01	2.00	0.0
MJ61	JUNCTION	180.74	2.00	0.0
MJ62	JUNCTION	183.87	2.00	0.0
MJ63	JUNCTION	182.23	2.00	0.0
MJ64	JUNCTION	182.17	2.00	0.0
MJ65	JUNCTION	182.48	2.00	0.0
MJ66	JUNCTION	180.29	2.00	0.0
MJ67	JUNCTION	185.99	2.00	0.0
MJ68	JUNCTION	184.22	2.00	0.0
MJ69	JUNCTION	182.30	2.00	0.0
MJ7	JUNCTION	186.59	2.00	0.0
MJ70	JUNCTION	183.26	2.00	0.0
MJ71	JUNCTION	179.00	2.00	0.0
MJ72	JUNCTION	182.44	2.00	0.0
MJ73	JUNCTION	182.35	2.00	0.0
MJ74	JUNCTION	182.65	2.00	0.0
MJ75	JUNCTION	182.97	2.00	0.0
MJ76	JUNCTION	183.74	2.00	0.0
MJ77	JUNCTION	182.36	2.00	0.0
MJ78	JUNCTION	183.13	2.00	0.0
MJ79	JUNCTION	182.65	2.02	0.0
MJ8	JUNCTION	189.00	2.00	0.0
MJ80	JUNCTION	182.72	2.00	0.0
MJ81	JUNCTION	183.15	2.00	0.0
MJ82	JUNCTION	182.69	2.00	0.0
MJ83	JUNCTION	182.48	2.00	0.0
MJ84	JUNCTION	185.65	2.00	0.0
MJ85	JUNCTION	183.89	2.00	0.0
MJ86	JUNCTION	184.35	2.00	0.0
MJ87	JUNCTION	183.32	2.00	0.0
MJ88	JUNCTION	183.05	2.00	0.0
MJ89	JUNCTION	182.76	2.00	0.0
MJ9	JUNCTION	178.63	2.00	0.0
MJ90	JUNCTION	181.67	2.00	0.0
MJ91	JUNCTION	184.14	2.00	0.0
MJ92	JUNCTION	185.97	2.00	0.0
MJ93	JUNCTION	184.97	2.00	0.0

MJ94	JUNCTION	184.52	2.00	0.0
MJ95	JUNCTION	181.16	2.00	0.0
MJ96	JUNCTION	182.91	2.00	0.0
MJ97	JUNCTION	182.44	2.00	0.0
MJ98	JUNCTION	183.37	2.00	0.0
MJ99	JUNCTION	185.38	2.00	0.0
OGS-	JUNCTION	180.49	1.51	0.0
RICE_POND_OUTLET	JUNCTION	180.82	1.22	0.0
OF10-	OUTFALL	0.00	0.00	0.0
OF11-M	OUTFALL	183.10	1.10	0.0
OF12-	OUTFALL	179.15	0.68	0.0
OF13-	OUTFALL	180.31	0.45	0.0
OF14-	OUTFALL	179.55	0.53	0.0
OF15-	OUTFALL	177.00	0.00	0.0
OF16-	OUTFALL	177.00	0.45	0.0
OF17-	OUTFALL	177.80	0.75	0.0
OF18-M	OUTFALL	179.15	0.00	0.0
OF19-	OUTFALL	178.15	0.82	0.0
OF1-M	OUTFALL	175.00	1.00	0.0
OF20-	OUTFALL	179.15	0.45	0.0
OF21-	OUTFALL	179.15	0.00	0.0
OF22_M	OUTFALL	181.25	1.10	0.0
OF23-	OUTFALL	0.00	0.00	0.0
OF24-	OUTFALL	177.26	0.60	0.0
OF25-	OUTFALL	177.59	0.25	0.0
OF26-M	OUTFALL	178.53	1.10	0.0
OF27-1	OUTFALL	177.18	0.82	0.0
OF27-M	OUTFALL	178.86	0.50	0.0
OF28-	OUTFALL	0.00	0.00	0.0
OF29-	OUTFALL	178.63	0.30	0.0
OF2-M	OUTFALL	177.10	1.10	0.0
OF2-M-	OUTFALL	177.10	1.10	0.0
OF3-	OUTFALL	176.00	0.45	0.0
OF30-M	OUTFALL	179.83	0.48	0.0
OF31-M	OUTFALL	181.38	1.10	0.0
OF32-M	OUTFALL	184.92	1.10	0.0
OF33-	OUTFALL	177.03	0.82	0.0
OF34-	OUTFALL	0.00	0.00	0.0
OF35-	OUTFALL	0.00	0.00	0.0
OF36-	OUTFALL	0.00	0.00	0.0
OF37-	OUTFALL	0.00	0.00	0.0

OF38-	OUTFALL	0.00	0.00	0.0
OF39-	OUTFALL	0.00	0.00	0.0
OF3-M	OUTFALL	177.73	0.48	0.0
OF40-	OUTFALL	0.00	0.00	0.0
OF41-	OUTFALL	0.00	0.00	0.0
OF42-	OUTFALL	0.00	0.00	0.0
OF43-	OUTFALL	0.00	0.00	0.0
OF44-	OUTFALL	0.00	0.00	0.0
OF45-	OUTFALL	0.00	0.00	0.0
OF46-	OUTFALL	0.00	0.00	0.0
OF47-	OUTFALL	0.00	0.00	0.0
OF48-	OUTFALL	0.00	0.00	0.0
OF49-	OUTFALL	0.00	0.00	0.0
OF4-M	OUTFALL	175.62	1.10	0.0
OF50	OUTFALL	0.00	0.00	0.0
OF51	OUTFALL	0.00	0.00	0.0
OF52	OUTFALL	0.00	0.00	0.0
OF53	OUTFALL	0.00	0.00	0.0
OF54	OUTFALL	0.00	0.00	0.0
OF55	OUTFALL	0.00	0.00	0.0
OF56	OUTFALL	0.00	0.00	0.0
OF57	OUTFALL	0.00	0.00	0.0
OF58	OUTFALL	0.00	0.00	0.0
OF59	OUTFALL	0.00	0.00	0.0
OF5-M	OUTFALL	182.86	1.10	0.0
OF6-	OUTFALL	175.50	0.38	0.0
OF60	OUTFALL	0.00	0.00	0.0
OF61	OUTFALL	0.00	0.00	0.0
OF62	OUTFALL	0.00	0.00	0.0
OF7-M	OUTFALL	177.13	1.10	0.0
OF8-	OUTFALL	176.00	0.15	0.0
OF9-M	OUTFALL	179.04	0.48	0.0
Gill_RD_Pond	STORAGE	176.65	2.85	0.0
Rice_Pond	STORAGE	179.25	4.75	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness

C_dummy	MJ48	OF1-M	CONDUIT	7.2	20.4772	0.0100
C1	J24	OF33-	CONDUIT	89.0	0.8236	0.0130
C100	MH_39	MH_47	CONDUIT	24.9	0.2366	0.0130
C106	MH_37	MH_38	CONDUIT	44.0	0.5205	0.0130
C108	CBMH_40	CBMH_41	CONDUIT	54.3	0.3717	0.0130
C110	CBMH_41	MH_45	CONDUIT	16.0	0.6109	0.0130
C111	CBMH_44	MH_45	CONDUIT	24.6	0.8692	0.0130
C113	MH_43	CBMH_44	CONDUIT	23.6	0.3733	0.0130
C114	CBMH_42	MH_43	CONDUIT	10.9	0.6398	0.0130
C115	J115	CBMH_42	CONDUIT	60.3	0.3733	0.0130
C116	MH_45	CBMH_46	CONDUIT	20.1	0.5367	0.0130
C118	CBMH_46	MH_47	CONDUIT	15.5	1.0454	0.0130
C119_1	CBMH_46	MH_47	CONDUIT	15.5	0.7550	0.0130
C119_2	MH_47	MH_67	CONDUIT	70.5	0.2921	0.0130
C123	MH_66	MH_67	CONDUIT	29.6	0.3513	0.0130
C124	MH_65	MH_66	CONDUIT	13.3	0.1802	0.0130
C125	MH_67	MH_68	CONDUIT	20.9	0.6846	0.0130
C126	MH_68	Rice_Pond	CONDUIT	6.4	0.3569	0.0130
C127	RICE_POND_OUTLET	MH_69	CONDUIT	56.2	0.8861	0.0130
C128	MH_69	MH_70	CONDUIT	68.2	0.7859	0.0130
C129	MH_70	OF14-	CONDUIT	15.0	0.8000	0.0130
C130	MH_64	MH_65	CONDUIT	81.8	0.3336	0.0130
C145	MH_56	MH_57	CONDUIT	60.6	0.4452	0.0130
C147	MH_57	MH_58	CONDUIT	13.0	0.6923	0.0130
C150	MH_58	MH_63	CONDUIT	18.3	0.5188	0.0130
C151	CBMH_62	MH_63	CONDUIT	16.2	0.5695	0.0130
C156	MH_61	CBMH_62	CONDUIT	90.9	0.5733	0.0130
C159	MH_59	MH_61	CONDUIT	34.7	0.6925	0.0130
C160	J106	MH_59	CONDUIT	30.5	0.4918	0.0130
C161	J105	J106	CONDUIT	66.0	0.5000	0.0130
C164	CBMH5	OF16-	CONDUIT	45.6	6.1581	0.0130
C165	J38	CBMH5	CONDUIT	22.7	0.8824	0.0130
C167	MH40	MH41	CONDUIT	49.1	0.3078	0.0130
C185	MH30	MH31	CONDUIT	37.4	0.1870	0.0130
C186	MH31	MH32	CONDUIT	50.8	0.2028	0.0130
C187	MH32	MH33	CONDUIT	15.1	0.2514	0.0130
C188	MH33	MH40	CONDUIT	109.6	0.2518	0.0130
C189	DCB72	MH37	CONDUIT	32.5	1.5263	0.0130
C190	MH37	MH38	CONDUIT	61.1	0.3337	0.0130
C193	MH38	MH39	CONDUIT	17.3	0.3808	0.0130
C194	MH39	MH40	CONDUIT	118.9	0.3961	0.0130

C2	MH_38	MH_39	CONDUIT	70.0	0.3500	0.0130
C200-	MH8	MH9	CONDUIT	36.4	0.6039	0.0130
C205	MH34	MH35	CONDUIT	23.5	0.2973	0.0130
C206	MH35	MH36	CONDUIT	24.6	0.2316	0.0130
C207	MH36	MH41	CONDUIT	28.7	0.2716	0.0130
C211	DICBMH42	MH42	CONDUIT	6.5	-12.8118	0.0130
C212	MH42	MH43	CONDUIT	68.8	0.1904	0.0130
C213	MH43	OF27-1	CONDUIT	52.8	0.1894	0.0130
C228	MH15_Main	MH6_Main	CONDUIT	16.9	1.4799	0.0130
C229	CB29	CB30	CONDUIT	6.2	1.7808	0.0130
C230	CB30_1	MH1_Main	CONDUIT	4.4	1.8111	0.0130
C231	CB33	MH2_Main	CONDUIT	2.5	-0.4040	0.0130
C232	CB31	CB32	CONDUIT	7.2	0.9773	0.0130
C233	CB32	MH2_Main	CONDUIT	12.5	0.5619	0.0130
C234	CB34	CB35	CONDUIT	6.7	1.4976	0.0130
C235	CB35	MH3_Main	CONDUIT	15.4	1.9516	0.0130
C239	CB42	MH5_Main	CONDUIT	15.1	1.3216	0.0130
C240	CB41	CB42	CONDUIT	6.9	2.8989	0.0130
C244	J49	MH15_Main	CONDUIT	6.0	2.1828	0.0130
C245	CB27	J48	CONDUIT	19.7	0.3548	0.0130
C246	J48	CBMH2	CONDUIT	23.9	2.5536	0.0130
C248	MH15	MH16	CONDUIT	44.7	0.4030	0.0130
C250	CB22	MH13	CONDUIT	9.6	10.4286	0.0130
C251	CB23	MH13	CONDUIT	9.8	1.0153	0.0130
C252	CB19	CB20	CONDUIT	15.2	1.4464	0.0130
C253	CB20	MH12	CONDUIT	15.9	0.8790	0.0130
C254	MH12	MH11	CONDUIT	12.7	7.2666	0.0130
C255	CB21	MH11	CONDUIT	3.3	9.6397	0.0130
C256	CB17	MH10	CONDUIT	13.1	1.2953	0.0130
C257	CB18	MH10	CONDUIT	2.9	3.4408	0.0130
C258	CB15	MH9	CONDUIT	9.3	0.2144	0.0130
C259	CB16	MH9	CONDUIT	4.3	2.3431	0.0130
C26	MH_11	MH_15	CONDUIT	56.2	0.5422	0.0130
C260	MH7	MH8	CONDUIT	81.0	0.4319	0.0130
C263	CBMH7	MH4	CONDUIT	22.6	1.2808	0.0130
C269	CBMH2	MH16	CONDUIT	20.1	3.1390	0.0130
C27	MH_14	MH_15	CONDUIT	97.1	0.8287	0.0130
C28	MH_15	MH_16	CONDUIT	22.7	0.6432	0.0130
C281	MH6	MH7	CONDUIT	43.9	0.4552	0.0130
C284	MH5	MH6	CONDUIT	23.2	0.3450	0.0130
C285	CBMH1	MH6	CONDUIT	41.3	0.3630	0.0130

C288	CBMH_1	MH_1	CONDUIT	47.1	0.4202	0.0130
C289	MH_1	MH_2	CONDUIT	75.0	0.7815	0.0130
C292	MH_2	OGS-	CONDUIT	18.2	0.4671	0.0130
C293	OGS-	OF13-	CONDUIT	18.7	0.9573	0.0130
C3	MH_17	MH_39	CONDUIT	58.3	0.4049	0.0100
C343	MH21	MH22	CONDUIT	21.6	0.1389	0.0130
C344	MH23	MH24	CONDUIT	93.3	0.1822	0.0130
C345	MH24	CB-58	CONDUIT	59.4	0.2357	0.0130
C346	MH25	MH26	CONDUIT	70.2	0.4845	0.0130
C347	MH26	OF24-	CONDUIT	50.3	4.9804	0.0130
C348	J125	J91	CONDUIT	8.0	-0.1248	0.0130
C349	J127	J125	CONDUIT	66.5	3.4622	0.0130
C350	J128	J127	CONDUIT	67.2	0.3125	0.0130
C351	J67	J70	CONDUIT	91.7	0.7678	0.0130
C352	J70	OF6-	CONDUIT	47.1	0.8940	0.0130
C353	J66	J116	CONDUIT	35.7	0.9794	0.0130
C4	MH_63	MH_64	CONDUIT	62.9	0.3243	0.0130
C437	J34	J128	CONDUIT	25.2	1.3320	0.0130
C48	MH_29	MH_30	CONDUIT	69.5	0.6041	0.0130
C5	MJ139	Gill_RD_Pond	CONDUIT	76.4	6.9284	0.0110
C50	MH_30	MH_37	CONDUIT	16.3	2.0267	0.0130
C53	MH_27	MH_37	CONDUIT	92.0	0.8152	0.0130
C54	MH_36	MH_37	CONDUIT	63.5	0.3592	0.0130
C6	J1	J7	CONDUIT	181.3	0.3365	0.0300
C653	MH11	MH13	CONDUIT	42.7	0.3981	0.0130
C655	MH3	MH4	CONDUIT	63.9	0.3132	0.0130
C656	MH2	MH3	CONDUIT	42.8	0.1401	0.0130
C657	MH13	CB26	CONDUIT	68.0	0.8672	0.0130
C658	MH13	MH14	CONDUIT	40.7	0.3932	0.0130
C660	MH9_Main	MH10_Main	CONDUIT	134.7	0.6089	0.0130
C662	MH6_Main	MH7_Main	CONDUIT	92.1	-0.0109	0.0130
C663	MH4_Main	MH5_Main	CONDUIT	85.2	0.9513	0.0130
C664	MH2_Main	MH3_Main	CONDUIT	67.3	0.7871	0.0130
C665	CB30	MH1_Main	CONDUIT	16.6	7.8707	0.0130
C666	MH16	OF17-	CONDUIT	30.3	0.6605	0.0130
C667	CBMH7_ON	CBMH8_ON	CONDUIT	93.3	0.4104	0.0130
C668	CBMH9_ON	CBMH10_Main	CONDUIT	10.0	31.7073	0.0130
C669	CBMH10_Main	OF19-	CONDUIT	19.7	6.4158	0.0130
C670	CBMH3_ON	CBMH4_ON	CONDUIT	68.5	0.3604	0.0130
C671	CBMH1_ON	CBMH2_ON	CONDUIT	105.9	0.2399	0.0130
C672	J78	J83	CONDUIT	190.5	0.0002	0.0130

C673	MH13_Main	MH13_Main_	CONDUIT	74.7	0.4015	0.0130
C674	J102	OF25-	CONDUIT	42.3	6.9030	0.0130
C685	J4	J5	CONDUIT	62.7	0.4560	0.0130
C686	J5	J12	CONDUIT	54.6	2.6223	0.0130
C687	J12	J15	CONDUIT	40.7	5.5862	0.0130
C688	J15	J20	CONDUIT	93.1	1.2852	0.0130
C689	J62	J24	CONDUIT	40.7	0.2749	0.0130
C690	J30	J5	CONDUIT	86.3	1.1007	0.0130
C7	J7	MJ112	CONDUIT	49.1	3.5856	0.0300
C700	MH8_Main	MH9_Main	CONDUIT	27.2	-0.1839	0.0130
C701	MH10_Main	MH11_Main	CONDUIT	69.8	0.6305	0.0130
C702	MH11_Main	OF3-	CONDUIT	7.4	4.5982	0.0130
C703	CBMH2_ON	CBMH3_ON	CONDUIT	90.8	0.2785	0.0130
C704	CBMH4_ON	CBMH5_ON	CONDUIT	27.1	-0.2586	0.0130
C705	CBMH5_ON	CBMH6_ON	CONDUIT	72.7	0.1114	0.0130
C707	CBMH6_ON	CBMH7_ON	CONDUIT	91.7	0.1592	0.0130
C708	CBMH8_ON	CBMH9_ON	CONDUIT	79.3	0.5004	0.0130
C709	J83	OF29-	CONDUIT	45.1	-396.0446	0.0130
C710	J95	J93	CONDUIT	10.7	2.0277	0.0130
C711	J93	J98	CONDUIT	79.8	1.2003	0.0130
C712	J101	J102	CONDUIT	64.9	0.7182	0.0130
C713	J98	J101	CONDUIT	58.9	0.6124	0.0130
C714	MH22	MH23	CONDUIT	57.9	-0.1556	0.0130
C715	MH25-1	MH25	CONDUIT	30.2	0.1987	0.0130
C716	MH9	MH10	CONDUIT	57.5	0.7128	0.0130
C717	MH4	MH8	CONDUIT	38.6	0.4399	0.0130
C718	MH1	MH2	CONDUIT	16.9	0.5316	0.0130
C727	J20	J24	CONDUIT	88.3	1.2954	0.0130
C734	J55	J62	CONDUIT	34.5	0.2264	0.0130
C735	J52	J55	CONDUIT	62.4	0.2034	0.0130
C736	J30	J31	CONDUIT	67.5	0.4398	0.0130
C737	J31	J36	CONDUIT	84.5	6.5747	0.0130
C738	J36	J42	CONDUIT	77.5	1.0928	0.0130
C739	J42	J43	CONDUIT	32.8	0.5860	0.0130
C740	J43	J50	CONDUIT	47.7	0.6264	0.0130
C741	J50	J24	CONDUIT	16.8	0.6248	0.0130
C751	MH7_Main	MH8_Main	CONDUIT	54.4	4.5484	0.0130
C752	MH5_Main	MH6_Main	CONDUIT	90.8	0.5617	0.0130
C753	MH3_Main	MH4_Main	CONDUIT	41.9	0.9067	0.0130
C754	MH1_Main	MH2_Main	CONDUIT	52.8	0.9467	0.0130
C755	MH14_Main	MH15_Main	CONDUIT	42.1	0.1425	0.0130

C756	MH13_Main_	MH14_Main	CONDUIT	18.2	0.1653	0.0130
C757	MH10	MH11	CONDUIT	41.1	0.4136	0.0130
C758	CB26	OF12-	CONDUIT	38.4	0.5024	0.0130
C759	J116	OF8-	CONDUIT	21.4	2.1075	0.0130
C760	J35	J34	CONDUIT	22.3	1.0632	0.0130
C762	J47	J125	CONDUIT	12.5	3.2016	0.0130
C763	J91	OF20-	CONDUIT	10.3	-7.5585	0.0130
C764	CB-58	MH25-1	CONDUIT	69.1	0.2460	0.0130
C765	J113	J110	CONDUIT	25.4	0.3945	0.0130
C766	J110	J101	CONDUIT	60.7	0.0889	0.0130
C767	MH14	MH15	CONDUIT	29.7	0.3700	0.0130
C77	MH_35	MH_36	CONDUIT	19.6	0.3563	0.0130
C8	J8	Rice_Pond	CONDUIT	36.1	2.4884	0.0110
C80	MH_34	MH_35	CONDUIT	63.7	0.5103	0.0130
C94	MH_16	MH_17	CONDUIT	104.8	0.4235	0.0130
CB72	MH41	Gill_RD_Pond	CONDUIT	58.9	0.8999	0.0130
MC_C6	MJ_	MJ64	CONDUIT	21.5	2.1384	0.0130
MC1	MJ1	MJ3	CONDUIT	135.2	0.0577	0.0130
MC10	MJ9	OF2-M-	CONDUIT	124.6	1.2312	0.0130
MC100	MJ81	MJ78	CONDUIT	11.0	0.1455	0.0130
MC101	MJ78	MJ90	CONDUIT	92.0	1.5904	0.0130
MC102	MJ80	MJ73	CONDUIT	32.3	1.1394	0.0130
MC103	MJ80	MJ83	CONDUIT	24.9	0.9719	0.0130
MC104	MJ82	MJ79	CONDUIT	7.9	0.5063	0.0130
MC105	MJ82	MJ74	CONDUIT	56.6	0.0707	0.0130
MC107	MJ84	MJ77	CONDUIT	36.5	9.0478	0.0130
MC108	MJ84	MJ91	CONDUIT	60.6	2.4876	0.0130
MC109	MJ84	MJ76	CONDUIT	61.1	3.1243	0.0130
MC11	MJ10	MJ14	CONDUIT	49.5	4.0700	0.0130
MC12	MJ10	MJ2	CONDUIT	159.9	3.5989	0.0130
MC120	MJ85	MJ74	CONDUIT	66.1	1.8778	0.0130
MC121	MJ85	MJ87	CONDUIT	41.9	1.3629	0.0130
MC122	MJ85	MJ81	CONDUIT	59.8	1.2392	0.0130
MC123	MJ93	MJ85	CONDUIT	57.7	1.8617	0.0130
MC124	MJ86	MJ80	CONDUIT	86.8	1.8805	0.0130
MC125	MJ88	MJ95	CONDUIT	403.1	0.4691	0.0130
MC126	MJ89	MJ83	CONDUIT	36.8	0.7609	0.0130
MC128	MJ91	MJ102	CONDUIT	82.5	1.5456	0.0130
MC129	MJ86	MJ91	CONDUIT	60.8	0.3536	0.0130
MC13	MJ11	MJ13	CONDUIT	28.6	0.4056	0.0130
MC130	MJ91	MJ97	CONDUIT	30.7	5.5591	0.0130

MC131	MJ92	MJ99	CONDUIT	33.3	1.7720	0.0130
MC132	MJ92	MJ122	CONDUIT	287.2	0.5975	0.0130
MC133	MJ92	MJ70	CONDUIT	133.7	2.0221	0.0130
MC135	MJ84	MJ94	CONDUIT	121.6	0.9268	0.0130
MC136	MJ95	MJ112	CONDUIT	81.9	0.6447	0.0130
MC137	MJ103	MJ96	CONDUIT	71.8	0.1267	0.0130
MC139	MJ98	MJ87	CONDUIT	106.9	0.0440	0.0130
MC14	MJ12	MJ3	CONDUIT	167.3	0.9635	0.0130
MC141	MJ101	MJ98	CONDUIT	20.7	1.5606	0.0130
MC142	MJ108	MJ98	CONDUIT	63.1	3.6601	0.0130
MC143	MJ99	MJ104	CONDUIT	59.7	1.9736	0.0130
MC144	MJ99	MJ107	CONDUIT	53.1	2.2812	0.0130
MC145	MJ100	OF9-M	CONDUIT	138.6	2.3246	0.0130
MC146	MJ103	MJ97	CONDUIT	29.3	1.9492	0.0130
MC147	MJ104	MJ116	CONDUIT	142.9	1.5579	0.0130
MC148	MJ115	MJ105	CONDUIT	61.4	1.5490	0.0130
MC149	MJ106	MJ102	CONDUIT	39.2	1.8115	0.0130
MC15	MJ14	MJ30	CONDUIT	22.9	0.5883	0.0130
MC150	MJ107	MJ129	CONDUIT	206.3	1.1586	0.0130
MC151	MJ104	MJ107	CONDUIT	29.0	0.1138	0.0130
MC152	MJ108	MJ93	CONDUIT	150.2	0.4727	0.0130
MC153	MJ108	MJ118	CONDUIT	62.4	1.5515	0.0130
MC154	MJ109	MJ114	CONDUIT	25.0	1.4442	0.0130
MC155	MJ109	MJ103	CONDUIT	37.9	4.9930	0.0130
MC156	MJ110	MJ128	CONDUIT	118.5	0.0262	0.0130
MC157	MJ111	MJ110	CONDUIT	74.0	0.6000	0.0130
MC158	MJ111	MJ112	CONDUIT	58.1	3.3254	0.0130
MC159	MJ112	MJ119	CONDUIT	53.0	0.7963	0.0130
MC16	MJ15	MJ36	CONDUIT	260.4	2.2510	0.0130
MC160	MJ113	MJ102	CONDUIT	59.9	2.2928	0.0130
MC161	MJ113	MJ103	CONDUIT	86.8	1.4183	0.0130
MC162	MJ114	MJ120	CONDUIT	85.2	0.7148	0.0130
MC163	MJ114	MJ101	CONDUIT	125.8	0.6717	0.0130
MC164	MJ117	MJ115	CONDUIT	27.5	0.4255	0.0130
MC165	MJ116	MJ129	CONDUIT	80.1	0.2459	0.0130
MC166	MJ117	MJ131	CONDUIT	101.8	1.2653	0.0130
MC167	MJ117	MJ90	CONDUIT	147.0	2.6315	0.0130
MC168	MJ118	MJ105	CONDUIT	150.7	0.1573	0.0130
MC169	MJ119	OF26-M	CONDUIT	75.5	2.6287	0.0130
MC17	MJ15	MJ7	CONDUIT	93.9	2.0697	0.0130
MC170	MJ113	MJ120	CONDUIT	61.3	0.5073	0.0130

MC171	MJ121	MJ115	CONDUIT	74.5	1.6620	0.0130
MC172	MJ122	MJ100	CONDUIT	133.6	1.4897	0.0130
MC173	MJ123	MJ114	CONDUIT	62.5	4.1716	0.0130
MC174	MJ123	MJ127	CONDUIT	79.9	1.5985	0.0130
MC175	MJ123	MJ130	CONDUIT	62.4	1.7150	0.0130
MC176	MJ123	MJ108	CONDUIT	146.0	1.0035	0.0130
MC177	MJ124	MJ119	CONDUIT	39.3	0.4300	0.0130
MC178	MJ125	MJ118	CONDUIT	59.8	2.3468	0.0130
MC179	MJ126	MJ131	CONDUIT	44.9	2.0049	0.0130
MC18	MJ16	MJ13	CONDUIT	89.0	0.0494	0.0130
MC180	MJ126	MJ122	CONDUIT	88.7	1.0158	0.0130
MC181	MJ127	MJ120	CONDUIT	62.4	3.1057	0.0130
MC182_1	MJ128	MH41_S	CONDUIT	49.8	0.4619	0.0130
MC182_2	MH36_S	MH34_S	CONDUIT	36.1	1.3508	0.0130
MC182_3	MH36_S	MH41_S	CONDUIT	28.8	0.3848	0.0130
MC182_5	MH34_S	MJ124	CONDUIT	33.6	3.2856	0.0130
MC183	MJ129	MJ132	CONDUIT	28.7	0.1324	0.0130
MC184	MJ130	MJ118	CONDUIT	143.9	0.9472	0.0130
MC185	MJ131	MJ135	CONDUIT	67.8	1.4751	0.0130
MC186	MJ131	MJ136	CONDUIT	53.3	1.6663	0.0130
MC187	MJ133	MJ125	CONDUIT	98.4	0.4624	0.0130
MC188	MJ147	MJ134	CONDUIT	173.9	0.9328	0.0130
MC189	MJ136	MJ134	CONDUIT	97.4	2.0292	0.0130
MC19	MJ17	MJ19	CONDUIT	20.2	4.1620	0.0130
MC190	MJ136	MJ148	CONDUIT	187.8	0.1874	0.0130
MC191	MJ137	MJ134	CONDUIT	270.3	0.3862	0.0130
MC192	MJ138	MJ130	CONDUIT	82.2	2.1465	0.0130
MC193	MJ138	MJ143	CONDUIT	110.3	3.3328	0.0130
MC194_1	MH37_S	MJ139	CONDUIT	27.9	1.4505	0.0130
MC194_2	MH37_S	MJ140	CONDUIT	79.1	0.2034	0.0130
MC195	MJ140	MJ128	CONDUIT	131.2	0.0663	0.0130
MC196	MJ149	MH2_S	CONDUIT	23.9	0.2093	0.0130
MC197	MH3_S	MH2_S	CONDUIT	42.6	0.3760	0.0130
MC198	MJ143	MH3_S	CONDUIT	68.5	0.0730	0.0130
MC199	MJ143	MH8_S	CONDUIT	28.8	0.6939	0.0130
MC2	MJ2	MJ1	CONDUIT	43.3	0.6537	0.0130
MC20	MJ25	MJ18	CONDUIT	41.3	0.2322	0.0130
MC200	MH8_S	MH9__S	CONDUIT	41.7	0.5519	0.0130
MC201	MH9__S	MH10__S	CONDUIT	57.2	1.0142	0.0130
MC202	MH10__S	MH11__S	CONDUIT	42.2	0.9005	0.0130
MC203	MJ144	MJ145	CONDUIT	172.1	0.1859	0.0130

MC204	MJ144	MJ124	CONDUIT	199.9	1.2367	0.0130
MC205	MJ145	OF22_M	CONDUIT	55.0	2.5754	0.0130
MC206	MJ147	MH21_S	CONDUIT	67.2	0.3124	0.0130
MC207	MH21_S	MJ146	CONDUIT	140.1	0.3127	0.0130
MC208	MJ148	MJ147	CONDUIT	23.7	0.0084	0.0130
MC209	MJ150	MJ151	CONDUIT	45.7	2.3179	0.0130
MC21	MJ19	OF4-M	CONDUIT	39.7	13.9110	0.0130
MC210	MJ150	MH8_S	CONDUIT	139.7	0.3442	0.0130
MC211	MJ151	OF11-M	CONDUIT	12.4	4.6987	0.0130
MC212	MJ152	MJ148	CONDUIT	288.9	0.2388	0.0130
MC213	MJ153	MJ152	CONDUIT	245.8	0.2522	0.0130
MC214_1	MJ154	J8	CONDUIT	73.9	0.1056	0.0130
MC214_2	J8	MJ153	CONDUIT	72.7	0.1059	0.0130
MC215	MJ155	MJ154	CONDUIT	125.0	0.5648	0.0130
MC216	MJ156	MJ155	CONDUIT	105.8	0.6323	0.0130
MC217	MJ156	MJ154	CONDUIT	187.0	0.7353	0.0130
MC218	MJ157	MJ152	CONDUIT	486.8	0.5156	0.0130
MC219	MJ135	MJ142	CONDUIT	72.7	0.8639	0.0130
MC22	MJ20	MJ32	CONDUIT	77.6	1.7280	0.0130
MC220	MJ135	MH11__S	CONDUIT	42.3	1.1336	0.0130
MC221	MJ53	MJ61	CONDUIT	58.5	2.5772	0.0130
MC223	MJ53	MJ46	CONDUIT	55.3	1.2482	0.0130
MC224	MJ54	MJ37	CONDUIT	94.3	4.0462	0.0130
MC225	MJ68	MJ75	CONDUIT	37.1	3.3579	0.0130
MC226	MJ79	MJ72	CONDUIT	28.7	0.7328	0.0130
MC227	MJ83	MJ72	CONDUIT	90.7	0.0441	0.0130
MC228	MJ89	MJ82	CONDUIT	90.5	0.0774	0.0130
MC229	MJ96	MJ89	CONDUIT	75.8	0.2044	0.0130
MC23	MJ21	MJ13	CONDUIT	131.7	0.2475	0.0130
MC230	MJ98	MJ89	CONDUIT	60.9	0.9969	0.0130
MC231	MJ93	MJ105	CONDUIT	63.5	0.7798	0.0130
MC232	MJ18	MJ26	CONDUIT	61.8	0.7819	0.0130
MC24	MJ22	OF32-M	CONDUIT	84.3	1.7084	0.0130
MC25	MJ23	MJ21	CONDUIT	34.3	0.9826	0.0130
MC26	MJ45	MJ25	CONDUIT	60.8	2.1998	0.0130
MC27	MJ26	OF31-M	CONDUIT	95.3	1.5725	0.0130
MC28	MJ27	OF2-M	CONDUIT	95.8	2.8401	0.0130
MC29	MJ28	MJ32	CONDUIT	40.6	2.8199	0.0130
MC3	MJ3	OF7-M	CONDUIT	20.9	1.2253	0.0130
MC30	MJ28	MJ31	CONDUIT	53.6	3.7550	0.0130
MC31	MJ17	MJ29	CONDUIT	88.9	0.8887	0.0130

MC32	MJ30	MJ31	CONDUIT	78.6	0.3522	0.0130
MC33	MJ31	MJ1	CONDUIT	86.7	4.1641	0.0130
MC34	MJ32	MJ57	CONDUIT	101.0	3.0805	0.0130
MC35	MJ33	MJ29	CONDUIT	32.9	1.9730	0.0130
MC36	MJ33	MJ38	CONDUIT	47.9	0.0397	0.0130
MC37	MJ34	MJ21	CONDUIT	54.9	1.3972	0.0130
MC38	MJ35	MJ27	CONDUIT	41.9	0.7995	0.0130
MC39	MJ36	MJ24	CONDUIT	173.3	0.4963	0.0130
MC4	MJ4	MJ2	CONDUIT	63.0	3.0989	0.0130
MC40	MJ158	MJ44	CONDUIT	40.0	0.2123	0.0130
MC41	MJ37	MJ48	CONDUIT	129.5	1.6902	0.0130
MC42	MJ39	MJ47	CONDUIT	30.9	3.6237	0.0130
MC43	MJ39	MJ29	CONDUIT	79.1	3.6801	0.0130
MC44	MJ40	MJ19	CONDUIT	124.8	1.5467	0.0130
MC45	MJ40	MJ47	CONDUIT	55.7	0.1616	0.0130
MC46	MJ41	MJ25	CONDUIT	69.8	0.0487	0.0130
MC47	MJ42	MJ35	CONDUIT	55.8	0.8961	0.0130
MC48	MJ43	MJ22	CONDUIT	206.3	0.2385	0.0130
MC49	MJ43	MJ67	CONDUIT	226.5	0.2927	0.0130
MC5	MJ5	MJ10	CONDUIT	19.1	0.6550	0.0130
MC50	MJ44	MJ26	CONDUIT	144.4	0.3587	0.0130
MC51	MJ45	MJ26	CONDUIT	67.7	2.8309	0.0130
MC52	MJ45	MJ20	CONDUIT	51.3	2.9504	0.0130
MC53	MJ46	MJ35	CONDUIT	63.7	2.2062	0.0130
MC54	MJ49	MJ47	CONDUIT	23.3	0.3004	0.0130
MC55	MJ49	MJ58	CONDUIT	54.2	0.8875	0.0130
MC56	MJ56	MJ49	CONDUIT	45.8	0.0371	0.0130
MC57	MJ49	MJ38	CONDUIT	67.0	1.8361	0.0130
MC58	MJ50	MJ52	CONDUIT	27.6	0.0435	0.0130
MC59	MJ51	MJ55	CONDUIT	99.2	2.5240	0.0130
MC6	MJ13	OF3-M	CONDUIT	79.6	1.0905	0.0130
MC62	MJ54	MJ61	CONDUIT	36.0	4.7442	0.0130
MC64	MJ55	MJ48	CONDUIT	45.0	4.6316	0.0130
MC65	MJ56	MJ63	CONDUIT	58.9	1.1665	0.0130
MC66	MJ56	MJ34	CONDUIT	146.2	2.2057	0.0130
MC67	MJ56	MJ74	CONDUIT	85.4	0.3126	0.0130
MC68	MJ57	MJ3	CONDUIT	39.4	3.6608	0.0130
MC69	MJ52	MJ58	CONDUIT	38.1	0.4514	0.0130
MC7	MJ7	MJ22	CONDUIT	333.2	0.1279	0.0130
MC70	MJ60	MJ55	CONDUIT	42.2	3.5069	0.0130
MC71	MJ62	MJ69	CONDUIT	71.4	2.2078	0.0130

MC72	MJ62	MJ51	CONDUIT	50.3	5.6551	0.0130
MC73	MJ63	MJ42	CONDUIT	112.4	1.4014	0.0130
MC74	MJ63	MJ64	CONDUIT	18.0	0.3333	0.0130
MC75	MJ72	MJ63	CONDUIT	54.8	0.3832	0.0130
MC76	MJ_	MJ53	CONDUIT	34.0	1.1168	0.0130
MC77	MJ65	MJ73	CONDUIT	28.0	0.4357	0.0130
MC78	MJ65	MJ61	CONDUIT	37.1	4.6736	0.0130
MC79	MJ66	MJ55	CONDUIT	57.6	3.0587	0.0130
MC8	MJ8	MJ36	CONDUIT	243.0	2.6058	0.0130
MC80	MJ67	MJ92	CONDUIT	237.2	0.0105	0.0130
MC82	MJ68	MJ59	CONDUIT	52.0	4.3676	0.0130
MC83	MJ68	MJ59	CONDUIT	83.2	2.7282	0.0130
MC84	MJ69	MJ60	CONDUIT	54.2	4.2252	0.0130
MC85	MJ70	MJ100	CONDUIT	282.1	0.3555	0.0130
MC86	MJ70	OF30-M	CONDUIT	133.3	2.5778	0.0130
MC87	MJ71	MJ48	CONDUIT	114.6	2.2320	0.0130
MC89	MJ73	MJ64	CONDUIT	74.1	0.2483	0.0130
MC9	MJ8	MJ15	CONDUIT	154.2	0.3048	0.0130
MC90	MJ78	MJ75	CONDUIT	16.0	1.0251	0.0130
MC91	MJ75	OF5-M	CONDUIT	38.8	0.2835	0.0130
MC92	MJ76	MJ69	CONDUIT	35.2	4.0943	0.0130
MC93	MJ76	MJ65	CONDUIT	84.9	1.4866	0.0130
MC97	MJ86	MJ76	CONDUIT	59.5	1.0353	0.0130
MC98	MJ77	MJ66	CONDUIT	50.5	4.0925	0.0130
MC99	MJ77	MJ69	CONDUIT	59.5	0.0992	0.0130
MJ-C5	J1	J2	CONDUIT	172.3	0.0754	0.0300
MJ-C6	J2	J3	CONDUIT	167.9	0.7682	0.0300
MJ-C7	J3	J6	CONDUIT	110.4	0.3169	0.0300
MJ-C8	J6	OF27-M	CONDUIT	80.0	2.9621	0.0300
OL5	Gill_RD_Pond	DICBMH42	ORIFICE			
OL1	Rice_Pond	RICE_POND_OUTLET	OUTLET			
OL10	MH3_S	MH3	OUTLET			
OL11	MJ148	CBMH5	OUTLET			
OL12	MJ147	J128	OUTLET			
OL13	MH21_S	MH21	OUTLET			
OL14	MJ146	MH24	OUTLET			
OL15	MH9__S	MH9	OUTLET			
OL16	MJ21	MH9_Main	OUTLET			
OL17	MJ13	MH10_Main	OUTLET			
OL18	MJ151	MH5	OUTLET			
OL19	MJ112	MH30	OUTLET			

OL2	MJ135	MH13	OUTLET
OL20	MH34_S	MH34	OUTLET
OL21	MH37_S	MH37	OUTLET
OL22	MJ56	MH6_Main	OUTLET
OL23	MJ74	MH5_Main	OUTLET
OL24	MJ93	MH3_Main	OUTLET
OL25	MJ105	MH2_Main	OUTLET
OL26	MJ115	MH1_Main	OUTLET
OL27	MJ154	MH_39	OUTLET
OL28	MJ134	J125	OUTLET
OL29	MJ142	CB26	OUTLET
OL3	MH2_S	MH2	OUTLET
OL30	MJ67	CBMH1_ON	OUTLET
OL31	MJ15	J5	OUTLET
OL32	MJ36	J24	OUTLET
OL33	MJ8	J31	OUTLET
OL34	MJ24	J52	OUTLET
OL35	MJ104	J95	OUTLET
OL36	MJ107	J113	OUTLET
OL37	MJ129	J101	OUTLET
OL38	MJ132	J102	OUTLET
OL39	MJ92	CBMH5_ON	OUTLET
OL4	MJ143	MH4	OUTLET
OL40	MJ122	CBMH8_ON	OUTLET
OL41	MJ126	CBMH9_ON	OUTLET
OL42	MJ145	CB-58	OUTLET
OL43	MJ144	MH26	OUTLET
OL44	MJ156	MH_15	OUTLET
OL45	MJ155	MH_37	OUTLET
OL46	MJ153	MH_65	OUTLET
OL47	MJ73	MH13_Main	OUTLET
OL48	MJ63	MH14_Main	OUTLET
OL49	MJ64	MH13_Main_	OUTLET
OL50	MJ140	MH39	OUTLET
OL51	MJ128	MH40	OUTLET
OL52	MJ110	MH32	OUTLET
OL53	MJ3	J70	OUTLET
OL6	MJ131	CBMH2	OUTLET
OL7	MJ152	MH_56	OUTLET
OL8	MH10__S	MH10	OUTLET
OL9	MH11__S	MH11	OUTLET

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C_dummy	TRIANGULAR	1.00	0.50	0.22	1.00	1	8.34
C1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.30
C100	CIRCULAR	0.82	0.53	0.21	0.82	1	0.70
C106	CIRCULAR	0.68	0.36	0.17	0.68	1	0.61
C108	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C110	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C111	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C113	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C114	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C115	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C116	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C118	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C119_1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.25
C119_2	CIRCULAR	0.82	0.53	0.21	0.82	1	0.78
C123	CIRCULAR	0.45	0.16	0.11	0.45	1	0.17
C124	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C125	CIRCULAR	0.90	0.64	0.23	0.90	1	1.50
C126	CIRCULAR	0.90	0.64	0.23	0.90	1	1.08
C127	CIRCULAR	0.53	0.22	0.13	0.53	1	0.40
C128	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C129	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C130	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C145	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C147	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C150	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C151	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C156	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C159	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C160	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C161	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C164	CIRCULAR	0.45	0.16	0.11	0.45	1	0.71
C165	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C167	CIRCULAR	0.53	0.22	0.13	0.53	1	0.24

C185	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C186	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C187	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C188	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C189	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C190	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C193	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C194	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C2	CIRCULAR	0.68	0.36	0.17	0.68	1	0.50
C200-	CIRCULAR	0.60	0.28	0.15	0.60	1	0.48
C205	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C206	CIRCULAR	0.45	0.16	0.11	0.45	1	0.14
C207	CIRCULAR	0.45	0.16	0.11	0.45	1	0.15
C211	CIRCULAR	0.82	0.53	0.21	0.82	1	5.14
C212	CIRCULAR	0.82	0.53	0.21	0.82	1	0.63
C213	CIRCULAR	0.82	0.53	0.21	0.82	1	0.62
C228	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C229	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C230	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C231	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C232	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C233	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C234	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C235	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C239	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C240	CIRCULAR	0.30	0.07	0.07	0.30	1	0.16
C244	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C245	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C246	CIRCULAR	0.53	0.22	0.13	0.53	1	0.69
C248	CIRCULAR	0.75	0.44	0.19	0.75	1	0.71
C250	CIRCULAR	0.30	0.07	0.07	0.30	1	0.31
C251	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C252	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C253	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C254	CIRCULAR	0.30	0.07	0.07	0.30	1	0.26
C255	CIRCULAR	0.30	0.07	0.07	0.30	1	0.30
C256	CIRCULAR	0.38	0.11	0.09	0.38	1	0.20
C257	CIRCULAR	0.30	0.07	0.07	0.30	1	0.18
C258	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C259	CIRCULAR	0.30	0.07	0.07	0.30	1	0.15
C26	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21

C260	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C263	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C269	CIRCULAR	0.38	0.11	0.09	0.38	1	0.31
C27	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C28	CIRCULAR	0.60	0.28	0.15	0.60	1	0.49
C281	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C284	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C285	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C288	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C289	CIRCULAR	0.45	0.16	0.11	0.45	1	0.25
C292	CIRCULAR	0.45	0.16	0.11	0.45	1	0.19
C293	CIRCULAR	0.45	0.16	0.11	0.45	1	0.28
C3	CIRCULAR	0.60	0.28	0.15	0.60	1	0.51
C343	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C344	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C345	CIRCULAR	0.53	0.22	0.13	0.53	1	0.21
C346	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C347	CIRCULAR	0.60	0.28	0.15	0.60	1	1.37
C348	CIRCULAR	0.45	0.16	0.11	0.45	1	0.10
C349	CIRCULAR	0.40	0.13	0.10	0.40	1	0.39
C350	CIRCULAR	0.40	0.13	0.10	0.40	1	0.12
C351	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C352	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C353	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C4	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C437	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C48	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C5	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	13.42
C50	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C53	CIRCULAR	0.60	0.28	0.15	0.60	1	0.55
C54	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C6	TRIANGULAR	1.00	1.20	0.38	2.40	1	1.23
C653	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C655	CIRCULAR	0.60	0.28	0.15	0.60	1	0.34
C656	CIRCULAR	0.60	0.28	0.15	0.60	1	0.23
C657	CIRCULAR	0.68	0.36	0.17	0.68	1	0.78
C658	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C660	CIRCULAR	0.45	0.16	0.11	0.45	1	0.22
C662	CIRCULAR	0.45	0.16	0.11	0.45	1	0.03
C663	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C664	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09

C665	CIRCULAR	0.30	0.07	0.07	0.30	1	0.27
C666	CIRCULAR	0.75	0.44	0.19	0.75	1	0.90
C667	CIRCULAR	0.60	0.28	0.15	0.60	1	0.39
C668	CIRCULAR	0.75	0.44	0.19	0.75	1	6.27
C669	CIRCULAR	0.82	0.53	0.21	0.82	1	3.64
C670	CIRCULAR	0.60	0.28	0.15	0.60	1	0.37
C671	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C672	CIRCULAR	0.30	0.07	0.07	0.30	1	0.00
C673	CIRCULAR	0.45	0.16	0.11	0.45	1	0.18
C674	CIRCULAR	0.25	0.05	0.06	0.25	1	0.16
C685	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C686	CIRCULAR	0.38	0.11	0.09	0.38	1	0.28
C687	CIRCULAR	0.38	0.11	0.09	0.38	1	0.41
C688	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C689	CIRCULAR	0.68	0.36	0.17	0.68	1	0.44
C690	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C7	CIRCULAR	1.00	0.79	0.25	1.00	1	1.97
C700	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C701	CIRCULAR	0.45	0.16	0.11	0.45	1	0.23
C702	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C703	CIRCULAR	0.47	0.18	0.12	0.47	1	0.17
C704	CIRCULAR	0.60	0.28	0.15	0.60	1	0.31
C705	CIRCULAR	0.60	0.28	0.15	0.60	1	0.20
C707	CIRCULAR	0.60	0.28	0.15	0.60	1	0.25
C708	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C709	CIRCULAR	0.30	0.07	0.07	0.30	1	1.92
C710	CIRCULAR	0.25	0.05	0.06	0.25	1	0.08
C711	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C712	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C713	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C714	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C715	CIRCULAR	0.60	0.28	0.15	0.60	1	0.27
C716	CIRCULAR	0.60	0.28	0.15	0.60	1	0.52
C717	CIRCULAR	0.60	0.28	0.15	0.60	1	0.41
C718	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C727	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C734	CIRCULAR	0.68	0.36	0.17	0.68	1	0.40
C735	CIRCULAR	0.68	0.36	0.17	0.68	1	0.38
C736	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C737	CIRCULAR	0.38	0.11	0.09	0.38	1	0.45
C738	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18

C739	CIRCULAR	0.53	0.22	0.13	0.53	1	0.33
C740	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C741	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C751	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C752	CIRCULAR	0.35	0.10	0.09	0.35	1	0.11
C753	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C754	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C755	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C756	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C757	CIRCULAR	0.75	0.44	0.19	0.75	1	0.72
C758	CIRCULAR	0.68	0.36	0.17	0.68	1	0.60
C759	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C760	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C762	CIRCULAR	0.30	0.07	0.07	0.30	1	0.17
C763	CIRCULAR	0.45	0.16	0.11	0.45	1	0.78
C764	CIRCULAR	0.60	0.28	0.15	0.60	1	0.30
C765	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C766	CIRCULAR	0.25	0.05	0.06	0.25	1	0.02
C767	CIRCULAR	0.75	0.44	0.19	0.75	1	0.68
C77	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	8.04
C80	CIRCULAR	0.45	0.16	0.11	0.45	1	0.20
C94	CIRCULAR	0.60	0.28	0.15	0.60	1	0.40
CB72	CIRCULAR	0.53	0.22	0.13	0.53	1	0.41
MC_C6	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	140.85
MC1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	23.13
MC10	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.88
MC100	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	36.73
MC101	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.47
MC102	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	102.81
MC103	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.96
MC104	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.54
MC105	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	25.61
MC107	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	289.72
MC108	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	151.91
MC109	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	170.25
MC11	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.32
MC12	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	182.72
MC120	Main_Street	0.35	4.72	0.25	23.30	1	19.72
MC121	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	112.45
MC122	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.22

MC123	Main_Street	0.35	4.72	0.25	23.30	1	19.63
MC124	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	132.08
MC125	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.97
MC126	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	84.02
MC128	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.75
MC129	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.28
MC13	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	61.34
MC130	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	227.10
MC131	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	22.98
MC132	Ontario_Street	0.30	3.89	0.21	19.00	1	8.23
MC133	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	136.97
MC135	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	92.73
MC136	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.34
MC137	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	34.29
MC139	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.20
MC14	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.54
MC141	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.32
MC142	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.27
MC143	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.25
MC144	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.07
MC145	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.32
MC146	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	134.47
MC147	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.22
MC148	Main_Street	0.35	4.72	0.25	23.30	1	17.91
MC149	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	129.64
MC15	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	73.88
MC150	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	103.67
MC151	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	32.49
MC152	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	66.22
MC153	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.97
MC154	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	115.75
MC155	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	215.22
MC156	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	15.58
MC157	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	74.61
MC158	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.64
MC159	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.95
MC16	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	144.51
MC160	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	145.84
MC161	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.71
MC162	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	81.43
MC163	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.94

MC164	Main_Street	0.35	4.72	0.25	23.30	1	9.38
MC165	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.56
MC166	Main_Street	0.35	4.72	0.25	23.30	1	16.18
MC167	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.25
MC168	Main_Street	0.35	4.72	0.25	23.30	1	5.71
MC169	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.16
MC17	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	138.57
MC170	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.61
MC171	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	124.17
MC172	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	21.07
MC173	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.73
MC174	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.78
MC175	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.14
MC176	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.49
MC177	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.16
MC178	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	147.55
MC179	Ontario_Street	0.30	3.89	0.21	19.00	1	15.08
MC18	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.42
MC180	Ontario_Street	0.30	3.89	0.21	19.00	1	10.74
MC181	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.74
MC182_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.46
MC182_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	111.95
MC182_3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.75
MC182_5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	174.59
MC183	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	35.05
MC184	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.74
MC185	Ontario_Street	0.30	3.89	0.21	19.00	1	12.94
MC186	Main_Street	0.35	4.72	0.25	23.30	1	18.57
MC187	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.50
MC188	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.02
MC189	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.59
MC19	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.50
MC190	Ontario_Street	0.30	3.89	0.21	19.00	1	4.61
MC191	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.86
MC192	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	141.11
MC193	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.84
MC194_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	116.00
MC194_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.44
MC195	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	24.80
MC196	Ontario_Street	0.30	3.89	0.21	19.00	1	4.87
MC197	Ontario_Street	0.30	3.89	0.21	19.00	1	6.53

MC198	Ontario_Street	0.30	3.89	0.21	19.00	1	2.88
MC199	Ontario_Street	0.30	3.89	0.21	19.00	1	8.87
MC2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.88
MC20	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	46.41
MC200	Ontario_Street	0.30	3.89	0.21	19.00	1	7.91
MC201	Ontario_Street	0.30	3.89	0.21	19.00	1	10.73
MC202	Ontario_Street	0.30	3.89	0.21	19.00	1	10.11
MC203	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	41.53
MC204	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.11
MC205	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.57
MC206	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.84
MC207	Gill_Rd	0.30	4.92	0.20	24.00	1	7.28
MC208	Gill_Rd	0.30	4.92	0.20	24.00	1	1.20
MC209	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	146.64
MC21	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	359.24
MC210	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	56.51
MC211	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.79
MC212	Main_Street	0.35	4.72	0.25	23.30	1	7.03
MC213	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.37
MC214_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.30
MC214_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.34
MC215	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	72.39
MC216	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	76.59
MC217	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.59
MC218	Main_Street	0.35	4.72	0.25	23.30	1	10.33
MC219	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	89.52
MC22	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.62
MC220	Ontario_Street	0.30	3.89	0.21	19.00	1	11.34
MC221	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.63
MC223	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	19.28
MC224	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	193.75
MC225	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	176.50
MC226	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.45
MC227	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.22
MC228	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	26.79
MC229	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.54
MC23	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.59
MC230	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.17
MC231	Main_Street	0.35	4.72	0.25	23.30	1	12.71
MC232	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.17
MC24	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.90

MC25	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	95.47
MC26	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	142.86
MC27	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.78
MC28	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.32
MC29	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	161.74
MC3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.62
MC30	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	186.64
MC31	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.80
MC32	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.16
MC33	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.55
MC34	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.05
MC35	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	135.29
MC36	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	19.18
MC37	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	20.40
MC38	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	86.13
MC39	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	67.85
MC4	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.56
MC40	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	44.38
MC41	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.22
MC42	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	183.35
MC43	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.77
MC44	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.79
MC45	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	38.72
MC46	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.25
MC47	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	91.18
MC48	Ontario_Street	0.30	3.89	0.21	19.00	1	5.20
MC49	Ontario_Street	0.30	3.89	0.21	19.00	1	5.76
MC5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.95
MC50	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.69
MC51	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.06
MC52	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	165.44
MC53	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.06
MC54	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	52.79
MC55	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.74
MC56	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	18.56
MC57	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	130.52
MC58	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.08
MC59	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	153.02
MC6	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	18.02
MC62	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	209.79
MC64	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	207.29

MC65	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	104.03
MC66	Main_Street	0.35	4.72	0.25	23.30	1	21.37
MC67	Main_Street	0.35	4.72	0.25	23.30	1	8.05
MC68	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.29
MC69	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	64.72
MC7	Ontario_Street	0.30	3.89	0.21	19.00	1	3.81
MC70	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	180.37
MC71	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.12
MC72	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	229.05
MC73	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.02
MC74	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	55.61
MC75	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.63
MC76	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	101.79
MC77	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.58
MC78	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.23
MC79	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	168.45
MC8	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	155.48
MC80	Ontario_Street	0.30	3.89	0.21	19.00	1	1.09
MC82	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	201.29
MC83	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	159.09
MC84	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	197.98
MC85	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.43
MC86	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	27.71
MC87	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.90
MC89	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.00
MC9	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.18
MC90	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	97.52
MC91	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	51.29
MC92	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.90
MC93	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	117.44
MC97	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	98.01
MC98	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.85
MC99	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	30.33
MJ-C5	TRIANGULAR	0.50	0.60	0.23	2.40	1	0.21
MJ-C6	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	7.81
MJ-C7	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.05
MJ-C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	3.22

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Transect Summary
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Transect Gill_Rd
Area:

0.0010	0.0039	0.0088	0.0156	0.0244
0.0351	0.0478	0.0624	0.0790	0.0976
0.1171	0.1366	0.1561	0.1756	0.1951
0.2146	0.2341	0.2537	0.2732	0.2927
0.3122	0.3317	0.3512	0.3707	0.3902
0.4100	0.4300	0.4505	0.4714	0.4927
0.5143	0.5364	0.5588	0.5817	0.6049
0.6285	0.6525	0.6769	0.7017	0.7268
0.7524	0.7783	0.8047	0.8314	0.8585
0.8860	0.9140	0.9422	0.9709	1.0000

Hrad:

0.0147	0.0294	0.0441	0.0588	0.0736
0.0883	0.1030	0.1177	0.1324	0.1471
0.1764	0.2056	0.2348	0.2640	0.2931
0.3222	0.3512	0.3802	0.4091	0.4380
0.4669	0.4957	0.5245	0.5532	0.5819
0.5995	0.6170	0.6344	0.6517	0.6689
0.6861	0.7031	0.7201	0.7370	0.7539
0.7706	0.7873	0.8040	0.8206	0.8371
0.8536	0.8700	0.8864	0.9028	0.9191
0.9353	0.9516	0.9677	0.9839	1.0000

Width:

0.0667	0.1333	0.2000	0.2667	0.3333
0.4000	0.4667	0.5333	0.6000	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6800	0.6933	0.7067	0.7200	0.7333
0.7467	0.7600	0.7733	0.7867	0.8000
0.8133	0.8267	0.8400	0.8533	0.8667
0.8800	0.8933	0.9067	0.9200	0.9333
0.9467	0.9600	0.9733	0.9867	1.0000

Transect Local_Curb_Simp
Area:

0.0011	0.0043	0.0097	0.0171	0.0261

```
            0.0367     0.0489     0.0624     0.0759     0.0894
            0.1030     0.1165     0.1300     0.1436     0.1576
            0.1722     0.1874     0.2031     0.2194     0.2362
            0.2536     0.2716     0.2901     0.3092     0.3288
            0.3489     0.3697     0.3910     0.4128     0.4352
            0.4582     0.4817     0.5057     0.5304     0.5555
            0.5813     0.6076     0.6344     0.6618     0.6898
            0.7183     0.7474     0.7770     0.8072     0.8379
            0.8692     0.9011     0.9335     0.9665     1.0000
Hrad:
            0.0193     0.0385     0.0578     0.0802     0.1019
            0.1227     0.1431     0.1756     0.2132     0.2506
            0.2878     0.3248     0.3617     0.3985     0.4340
            0.4674     0.4989     0.5286     0.5567     0.5832
            0.6083     0.6320     0.6545     0.6758     0.6961
            0.7153     0.7336     0.7511     0.7678     0.7837
            0.7989     0.8135     0.8274     0.8408     0.8536
            0.8660     0.8778     0.8893     0.9003     0.9109
            0.9211     0.9310     0.9406     0.9499     0.9589
            0.9676     0.9761     0.9843     0.9922     1.0000
Width:
            0.0640     0.1280     0.1920     0.2420     0.2900
            0.3380     0.3860     0.4000     0.4000     0.4000
            0.4000     0.4000     0.4000     0.4075     0.4240
            0.4405     0.4569     0.4734     0.4898     0.5063
            0.5227     0.5392     0.5557     0.5721     0.5886
            0.6050     0.6215     0.6379     0.6544     0.6709
            0.6873     0.7038     0.7202     0.7367     0.7531
            0.7696     0.7861     0.8025     0.8190     0.8354
            0.8519     0.8683     0.8848     0.9013     0.9177
            0.9342     0.9506     0.9671     0.9835     1.0000

Transect Local_NoCurb_Simp
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
```

```
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000

Transect Main_Street
Area:
            0.0011     0.0042     0.0095     0.0170     0.0265
            0.0382     0.0519     0.0678     0.0850     0.1029
            0.1208     0.1387     0.1566     0.1745     0.1924
            0.2103     0.2282     0.2461     0.2640     0.2819
            0.2998     0.3177     0.3356     0.3535     0.3714
            0.3893     0.4072     0.4251     0.4430     0.4614
            0.4806     0.5006     0.5215     0.5431     0.5656
            0.5889     0.6130     0.6379     0.6636     0.6901
            0.7174     0.7456     0.7746     0.8043     0.8349
            0.8663     0.8985     0.9315     0.9654     1.0000
Hrad:
            0.0142     0.0284     0.0425     0.0567     0.0709
            0.0851     0.0992     0.1151     0.1357     0.1625
```

```
            0.1906     0.2186     0.2465     0.2743     0.3021
            0.3298     0.3575     0.3851     0.4126     0.4400
            0.4674     0.4948     0.5220     0.5492     0.5764
            0.6034     0.6304     0.6574     0.6844     0.7109
            0.7357     0.7589     0.7807     0.8010     0.8200
            0.8378     0.8545     0.8701     0.8848     0.8985
            0.9115     0.9236     0.9351     0.9459     0.9561
            0.9658     0.9750     0.9837     0.9921     1.0000
Width:
            0.0605     0.1210     0.1814     0.2419     0.3024
            0.3629     0.4233     0.4761     0.5061     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5137     0.5368
            0.5600     0.5831     0.6063     0.6295     0.6526
            0.6758     0.6989     0.7221     0.7453     0.7684
            0.7916     0.8147     0.8379     0.8610     0.8842
            0.9074     0.9305     0.9537     0.9768     1.0000

Transect Ontario_Street
Area:
            0.0007     0.0028     0.0063     0.0113     0.0176
            0.0254     0.0345     0.0451     0.0570     0.0704
            0.0852     0.1014     0.1190     0.1380     0.1584
            0.1796     0.2007     0.2218     0.2429     0.2641
            0.2852     0.3063     0.3274     0.3486     0.3697
            0.3910     0.4126     0.4345     0.4568     0.4794
            0.5023     0.5256     0.5492     0.5731     0.5973
            0.6219     0.6467     0.6720     0.6975     0.7234
            0.7496     0.7761     0.8029     0.8301     0.8576
            0.8854     0.9136     0.9421     0.9709     1.0000
Hrad:
            0.0139     0.0278     0.0417     0.0556     0.0695
            0.0834     0.0973     0.1111     0.1250     0.1389
            0.1528     0.1667     0.1806     0.1945     0.2084
            0.2360     0.2635     0.2910     0.3184     0.3458
            0.3732     0.4005     0.4277     0.4549     0.4821
            0.5093     0.5359     0.5619     0.5873     0.6120
            0.6362     0.6598     0.6828     0.7053     0.7272
            0.7486     0.7695     0.7899     0.8098     0.8292
```

```
            0.8482     0.8667     0.8848     0.9024     0.9197
            0.9365     0.9529     0.9690     0.9847     1.0000
Width:
            0.0481     0.0961     0.1442     0.1923     0.2404
            0.2884     0.3365     0.3846     0.4326     0.4807
            0.5288     0.5768     0.6249     0.6730     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7322     0.7434     0.7545     0.7657     0.7768
            0.7880     0.7992     0.8103     0.8215     0.8326
            0.8438     0.8549     0.8661     0.8773     0.8884
            0.8996     0.9107     0.9219     0.9331     0.9442
            0.9554     0.9665     0.9777     0.9888     1.0000

Transect Transect1
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
```

```
            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000


***********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
***********************************************************

****************
Analysis Options
****************
Flow Units ............... CMS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 03/28/2023 00:00:00
Ending Date .............. 03/29/2023 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:10:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 5.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 8
Head Tolerance ........... 0.001500 m
```

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	84.447	94.745
Evaporation Loss	0.000	0.000
Infiltration Loss	45.704	51.277
Surface Runoff	38.592	43.299
Final Storage	0.390	0.438
Continuity Error (%)	-0.283	

Flow Routing Continuity	Volume hectare-m	Volume 10^6 ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	38.579	385.794
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	36.853	368.533
Flooding Loss	0.631	6.309
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.156	1.557
Final Stored Volume	1.298	12.978
Continuity Error (%)	-0.121	

Highest Continuity Errors

Node MJ52 (24.67%)
Node MJ105 (19.29%)
Node MJ118 (16.77%)
Node CBMH4_ON (13.27%)
Node MJ140 (11.39%)

```
  Time-Step Critical Elements
  ***************************
  Link C_dummy (92.02%)
  Link C668 (2.06%)
  Link C702 (1.95%)


  *******************************
  Highest Flow Instability Indexes
  *******************************
  Link OL5 (34)
  Link C211 (34)
  Link C126 (19)
  Link C100 (17)
  Link C124 (16)


  *************************
  Routing Time Step Summary
  *************************
  Minimum Time Step           :     0.50 sec
  Average Time Step           :     1.61 sec
  Maximum Time Step           :     5.00 sec
  Percent in Steady State     :     0.00
  Average Iterations per Step :     3.48
  Percent Not Converging      :    23.80
  Time Step Frequencies       :
      5.000 -  3.155 sec      :     7.31 %
      3.155 -  1.991 sec      :     4.51 %
      1.991 -  1.256 sec      :    53.20 %
      1.256 -  0.792 sec      :    16.91 %
      0.792 -  0.500 sec      :    18.06 %


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------------------
-------------
                            Total      Total      Total      Total     Imperv       Perv      Total       Total
Peak  Runoff
```

Subcatchment	Precip mm	Runon mm	Evap mm	Infil mm	Runoff mm	Runoff mm	Runoff mm	Runoff 10^6 ltr	Runoff CMS	Coeff
Rural_1	94.75	0.00	0.00	42.63	37.35	14.42	51.77	3.59	2.19	0.546
Rural_10	94.75	0.00	0.00	43.69	37.38	13.30	50.68	16.90	9.84	0.535
Rural_11	94.75	0.00	0.00	40.98	37.29	16.30	53.60	0.25	0.18	0.566
Rural_12	94.75	0.00	0.00	43.69	37.38	13.30	50.68	11.26	6.56	0.535
Rural_13	94.75	0.00	0.00	43.69	37.38	13.30	50.68	11.47	6.68	0.535
Rural_14	94.75	0.00	0.00	43.69	37.38	13.30	50.68	8.62	5.02	0.535
Rural_15	94.75	0.00	0.00	43.69	37.38	13.30	50.68	9.78	5.70	0.535
Rural_16	94.75	0.00	0.00	43.69	37.38	13.30	50.68	13.35	7.78	0.535
Rural_16-2_1	94.75	0.00	0.00	42.63	37.35	14.42	51.77	3.20	1.95	0.546
Rural_16-2_2	94.75	0.00	0.00	42.63	37.35	14.42	51.77	3.83	2.35	0.546
Rural_17	94.75	0.00	0.00	40.98	37.29	16.30	53.60	1.48	1.07	0.566
Rural_17_1	94.75	0.00	0.00	40.98	37.29	16.30	53.60	1.53	1.10	0.566
Rural_17_2	94.75	0.00	0.00	43.69	37.38	13.30	50.68	7.69	4.48	0.535
Rural_17_4	94.75	0.00	0.00	69.85	6.53	18.41	24.94	3.36	1.20	0.263
Rural_18	94.75	0.00	0.00	73.34	0.00	21.63	21.63	2.22	0.84	0.228
Rural_19	94.75	0.00	0.00	75.52	0.00	19.38	19.38	11.03	3.45	0.205
Rural_2	94.75	0.00	0.00	42.63	37.35	14.42	51.77	10.01	6.12	0.546
Rural_20	94.75	0.00	0.00	73.34	0.00	21.63	21.63	5.25	1.97	0.228
Rural_21	94.75	0.00	0.00	75.52	0.00	19.38	19.38	18.82	5.90	0.205

Rural_22	94.75	0.00	0.00	69.85	6.53	18.41	24.94	10.50
3.75	0.263							
Rural_23	94.75	0.00	0.00	62.62	14.92	17.12	32.04	16.59
7.58	0.338							
Rural_24	94.75	0.00	0.00	41.68	36.36	16.55	52.91	4.06
2.92	0.558							
Rural_25	94.75	0.00	0.00	65.82	11.19	17.70	28.89	11.51
4.82	0.305							
Rural_26	94.75	0.00	0.00	75.52	0.00	19.38	19.38	6.25
1.96	0.205							
Rural_27	94.75	0.00	0.00	42.63	37.35	14.42	51.77	4.67
2.86	0.546							
Rural_29	94.75	0.00	0.00	43.69	37.38	13.30	50.68	8.63
5.03	0.535							
Rural_3	94.75	0.00	0.00	42.63	37.35	14.42	51.77	3.77
2.30	0.546							
Rural_4	94.75	0.00	0.00	43.69	37.38	13.30	50.68	13.74
8.00	0.535							
Rural_5	94.75	0.00	0.00	42.63	37.35	14.42	51.77	5.82
3.56	0.546							
Rural_6	94.75	0.00	0.00	42.63	37.35	14.42	51.77	7.15
4.37	0.546							
Rural_7	94.75	0.00	0.00	43.69	37.38	13.30	50.68	8.76
5.10	0.535							
Rural_8	94.75	0.00	0.00	43.69	37.38	13.30	50.68	6.47
3.77	0.535							
Rural_9	94.75	0.00	0.00	43.69	37.38	13.30	50.68	11.46
6.67	0.535							
UC1	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.80
0.46	0.634							
UC10	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.20
0.14	0.792							
UC100	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08	0.792							
UC11	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.94
0.66	0.792							
UC111	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03	0.792							
UC112	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.53
0.37	0.792							
UC113	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.44
0.31	0.792							
UC114	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.13
0.09	0.792							

UC115	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.15
0.09 0.634								
UC116	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.43
0.30 0.792								
UC117	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.20 0.792								
UC118	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11 0.792								
UC119	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.25
0.17 0.792								
UC12	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.68
0.48 0.792								
UC120	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.07
0.75 0.792								
UC121	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.18
0.11 0.657								
UC122	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.23
0.16 0.792								
UC123	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08 0.792								
UC124	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.13 0.792								
UC125	94.75	0.00	0.00	34.63	23.35	36.56	59.91	0.18
0.07 0.632								
UC126	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06
0.04 0.792								
UC127	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.30
0.21 0.792								
UC128	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.01 0.792								
UC129	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.03
0.02 0.792								
UC13	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.84
0.59 0.792								
UC130	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.10
0.06 0.657								
UC131	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.05
0.04 0.792								
UC132	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.09
0.06 0.792								
UC133	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.15
0.09 0.634								
UC134	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.05
0.04 0.792								

UC135	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.21
0.12 0.634								
UC136	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.01 0.792								
UC137	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.10
0.06 0.657								
UC138	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.12
0.07 0.657								
UC139	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.03
0.02 0.657								
UC14	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.34
0.24 0.792								
UC140	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.08
0.05 0.657								
UC141	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.17
0.10 0.657								
UC142	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.08
0.05 0.657								
UC143	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.37
0.22 0.657								
UC144	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.21
0.13 0.657								
UC145	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.24
0.14 0.657								
UC146	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.28
0.17 0.657								
UC147	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.10
0.06 0.657								
UC148	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.10
0.06 0.657								
UC149	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.18
0.11 0.657								
UC15	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11 0.792								
UC150	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.38
0.22 0.634								
UC151	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.12 0.792								
UC152	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08 0.792								
UC153	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.36
0.25 0.792								
UC154	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.49
0.34 0.792								

UC155	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.14
0.10	0.792							
UC156	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.41
0.29	0.792							
UC157	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.34
0.24	0.792							
UC158	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.39
0.19	0.566							
UC159	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.09
0.06	0.792							
UC16	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.37
0.26	0.792							
UC160	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.45
1.01	0.792							
UC161	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.52
0.26	0.566							
UC162	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.28
0.19	0.792							
UC163	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06
0.04	0.792							
UC164	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.26
0.18	0.792							
UC165	94.75	0.00	0.00	28.00	32.64	33.91	66.55	1.98
1.27	0.702							
UC166	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.28
0.14	0.566							
UC167	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.46
0.32	0.792							
UC168	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08	0.792							
UC169	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.30
0.91	0.792							
UC17	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.61
0.43	0.792							
UC170	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.82
0.40	0.566							
UC171	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.90
0.63	0.792							
UC172	94.75	0.00	0.00	36.92	13.98	43.97	57.95	1.17
0.65	0.612							
UC173	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.63
1.14	0.792							
UC174	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.16
0.81	0.792							

UC175	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.08
0.06	0.792							
UC176	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17
0.12	0.792							
UC177	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.61
0.43	0.792							
UC178	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.59
0.41	0.792							
UC179	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.32
0.22	0.792							
UC18	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.51
0.36	0.792							
UC180	94.75	0.00	0.00	19.21	51.32	23.70	75.02	2.40
1.68	0.792							
UC181	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.57
0.40	0.792							
UC182	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.83
0.58	0.792							
UC183	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.75
1.23	0.792							
UC184	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.08
0.06	0.792							
UC185	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.08
0.06	0.792							
UC186	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03	0.792							
UC187	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10
0.07	0.792							
UC188	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.94
0.66	0.792							
UC189	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.33
0.93	0.792							
UC19	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.56
0.39	0.792							
UC190	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.20	0.792							
UC191	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.07
0.05	0.792							
UC192	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.78
1.25	0.792							
UC193	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.47
0.33	0.792							
UC194	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.29
0.90	0.792							

UC195	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.85
0.59 0.792								
UC196	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.45
0.32 0.792								
UC197	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.58
0.40 0.792								
UC198	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.58
0.40 0.792								
UC199	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17
0.12 0.792								
UC2	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.51
0.36 0.792								
UC20	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.68
0.48 0.792								
UC200	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.30
0.21 0.792								
UC201	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.79
0.55 0.792								
UC202	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.65
0.46 0.792								
UC203	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.50
0.35 0.792								
UC204	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.59
0.41 0.792								
UC205	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.21 0.792								
UC206	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.69
1.18 0.792								
UC207	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.72
0.50 0.792								
UC208	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.43
0.30 0.792								
UC209	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.28
0.20 0.792								
UC21	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.31
0.22 0.792								
UC210	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.16
0.81 0.792								
UC211	94.75	0.00	0.00	19.21	51.32	23.70	75.02	2.09
1.46 0.792								
UC212	94.75	0.00	0.00	19.21	51.32	23.70	75.02	2.11
1.47 0.792								
UC213	94.75	0.00	0.00	19.21	51.32	23.70	75.02	3.35
2.34 0.792								

UC214	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.46
0.32	0.792							
UC215	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.95
0.67	0.792							
UC216	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.49
1.04	0.792							
UC217	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.47
1.03	0.792							
UC218	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.90
0.63	0.792							
UC219	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10
0.07	0.792							
UC22	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.20	0.792							
UC220	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.01	0.792							
UC221	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10
0.07	0.792							
UC222	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.24
0.16	0.792							
UC223	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.20
0.14	0.792							
UC224	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.28
0.19	0.792							
UC225	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.55
0.38	0.792							
UC226	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.88
0.44	0.566							
UC227	94.75	0.00	0.00	41.44	4.66	48.94	53.60	1.84
0.91	0.566							
UC228	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.91
0.45	0.566							
UC229	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.01	0.792							
UC23	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.25
0.17	0.792							
UC24	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.26
0.18	0.792							
UC25	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.23
0.16	0.792							
UC26	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.13
0.09	0.792							
UC27	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08	0.792							

UC28	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11	0.792							
UC29	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.19
0.13	0.792							
UC3	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.09	0.792							
UC30	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.03
0.02	0.634							
UC300	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.14
0.80	0.792							
UC301	94.75	0.00	0.00	19.21	51.32	23.70	75.02	3.27
2.29	0.792							
UC302	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.36
0.25	0.792							
UC303	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.42
0.29	0.792							
UC304	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.60
1.12	0.792							
UC305	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.61
1.12	0.792							
UC306	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.37
0.18	0.566							
UC307	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.37
0.26	0.792							
UC308	94.75	0.00	0.00	20.19	51.43	22.56	73.98	2.03
1.11	0.781							
UC309	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.35
0.24	0.792							
UC31	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.20
0.12	0.634							
UC310	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.54
0.37	0.792							
UC311	94.75	0.00	0.00	19.21	51.32	23.70	75.02	3.37
2.35	0.792							
UC312	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.25
0.87	0.792							
UC313	94.75	0.00	0.00	28.00	32.64	33.91	66.55	4.73
3.04	0.702							
UC314	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.12	0.792							
UC315	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.71
0.49	0.792							
UC316	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.48
0.34	0.792							

UC317	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.44
0.31 0.792								
UC318	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.38
0.22 0.634								
UC319	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.76
1.23 0.792								
UC32	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.07
0.04 0.634								
UC33	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.48
0.28 0.634								
UC34	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.37
0.21 0.634								
UC35	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03 0.792								
UC36	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03 0.792								
UC37	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.06
0.03 0.634								
UC38	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.25
0.14 0.634								
UC39	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.07 0.792								
UC4	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.30
0.21 0.792								
UC40	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.07
0.05 0.792								
UC41	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.02 0.792								
UC42	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.07
0.05 0.792								
UC43	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06
0.04 0.792								
UC44	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.05
0.03 0.792								
UC45	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.13
0.09 0.792								
UC46	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10
0.07 0.792								
UC47	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08 0.792								
UC48	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.14
0.10 0.792								
UC49	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.31
0.22 0.792								

UC5	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.38
0.27	0.792							
UC50	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.21
0.15	0.792							
UC51	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.48
0.33	0.792							
UC52	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.43
0.30	0.792							
UC53	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.60
0.42	0.792							
UC54	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.58
0.40	0.792							
UC55	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.52
0.37	0.792							
UC56	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.30
0.21	0.792							
UC57	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.26
0.18	0.792							
UC58	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.22
0.15	0.792							
UC59	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17
0.12	0.792							
UC6	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11	0.792							
UC60	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08	0.792							
UC61	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.22
0.13	0.634							
UC62	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.51
0.36	0.792							
UC63	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06
0.04	0.792							
UC64	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.02	0.792							
UC65	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08	0.792							
UC66	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.05
0.04	0.792							
UC67	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.00
0.00	0.792							
UC68	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.12	0.792							
UC69	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.03
0.02	0.792							

UC7	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.22	0.16	0.792
UC70	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04	0.03	0.792
UC71	94.75	0.00	0.00	19.32	51.35	23.56	74.91	0.63	0.42	0.791
UC72	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04	0.03	0.792
UC73	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.27	0.19	0.792
UC74	94.75	0.00	0.00	41.91	4.66	48.41	53.07	8.46	3.59	0.560
UC75	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16	0.11	0.792
UC76	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.24	0.17	0.792
UC77	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.20	0.14	0.792
UC78	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29	0.21	0.792
UC79	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04	0.03	0.792
UC8	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.33	0.23	0.792
UC80	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02	0.02	0.792
UC81	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18	0.13	0.792
UC82	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.34	0.24	0.792
UC83	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.14	0.10	0.792
UC84	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.68	0.39	0.634
UC85	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.31	0.22	0.792
UC86	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.25	0.17	0.792
UC87	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11	0.08	0.792
UC88	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12	0.08	0.792
UC89	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.27	0.19	0.792

UC9	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.36	0.25	0.792
UC90	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11	0.07	0.792
UC91	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.03	0.02	0.792
UC92	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06	0.04	0.792
UC93	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16	0.11	0.792
UC94	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.13	0.09	0.792
UC95	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.07	0.05	0.792
UC96	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17	0.12	0.792
UC97	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10	0.07	0.792
UC98	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17	0.12	0.792
UC99	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.25	0.18	0.792

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Node Depth Summary
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Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
CB15	JUNCTION	0.09	1.40	183.10	0 09:04	1.40
CB16	JUNCTION	0.03	1.55	183.50	0 09:04	1.13
CB17	JUNCTION	0.08	2.86	183.13	0 09:04	1.69
CB18	JUNCTION	0.01	1.68	183.08	0 09:04	0.53
CB19	JUNCTION	0.05	1.50	183.10	0 09:02	0.88
CB20	JUNCTION	0.08	1.76	183.10	0 09:02	1.06
CB21	JUNCTION	0.03	1.56	182.07	0 09:04	0.95
CB22	JUNCTION	0.00	0.00	181.20	0 00:00	0.00
CB23	JUNCTION	0.02	0.14	181.59	0 09:05	0.09

CB26	JUNCTION	0.05	0.63	179.97	0	09:09	0.63
CB27	JUNCTION	0.00	0.00	182.57	0	00:00	0.00
CB29	JUNCTION	0.00	0.00	185.26	0	00:00	0.00
CB30	JUNCTION	0.00	0.04	185.19	0	09:08	0.00
CB30_1	JUNCTION	0.10	1.57	185.50	0	09:08	0.82
CB31	JUNCTION	0.16	1.13	184.62	0	09:07	1.13
CB32	JUNCTION	0.19	1.22	184.64	0	09:07	1.22
CB33	JUNCTION	0.26	1.39	184.73	0	09:07	1.39
CB34	JUNCTION	0.00	0.00	184.40	0	00:00	0.00
CB35	JUNCTION	0.00	0.12	184.32	0	09:14	0.05
CB41	JUNCTION	0.09	0.85	182.62	0	09:04	0.85
CB42	JUNCTION	0.20	1.50	182.65	0	09:05	1.50
CB-58	JUNCTION	0.23	2.10	182.53	0	09:03	1.55
CBMH_1	JUNCTION	0.32	1.47	183.00	0	08:48	1.47
CBMH_40	JUNCTION	0.04	2.25	185.00	0	09:05	0.43
CBMH_41	JUNCTION	0.10	1.98	184.50	0	09:04	0.65
CBMH_42	JUNCTION	0.02	1.68	184.50	0	09:06	0.37
CBMH_44	JUNCTION	0.13	1.87	184.30	0	09:04	0.74
CBMH_46	JUNCTION	0.31	1.47	183.47	0	09:04	1.18
CBMH_62	JUNCTION	0.05	0.27	182.90	0	09:39	0.27
CBMH1	JUNCTION	0.03	1.45	184.00	0	09:04	0.61
CBMH1_ON	JUNCTION	0.00	0.00	184.86	0	00:00	0.00
CBMH10_Main	JUNCTION	0.03	0.13	179.54	0	09:10	0.13
CBMH2	JUNCTION	0.02	0.05	180.78	0	09:05	0.05
CBMH2_ON	JUNCTION	0.00	0.00	184.54	0	00:00	0.00
CBMH3_ON	JUNCTION	0.00	0.08	184.34	0	09:08	0.08
CBMH4_ON	JUNCTION	0.14	0.34	184.33	0	09:09	0.34
CBMH5	JUNCTION	0.05	0.19	179.99	0	09:09	0.19
CBMH5_ON	JUNCTION	0.08	0.28	184.33	0	09:08	0.28
CBMH6_ON	JUNCTION	0.07	0.26	184.15	0	09:10	0.26
CBMH7	JUNCTION	0.03	1.87	184.25	0	09:04	1.17
CBMH7_ON	JUNCTION	0.05	0.20	183.91	0	09:11	0.20
CBMH8_ON	JUNCTION	0.07	0.29	183.56	0	09:10	0.29
CBMH9_ON	JUNCTION	0.02	0.09	182.83	0	09:10	0.09
DCB72	JUNCTION	0.00	0.00	180.43	0	00:00	0.00
DICBMH42	JUNCTION	0.79	1.08	177.73	0	09:54	1.07
J1	JUNCTION	0.19	0.78	183.78	0	09:07	0.76
J101	JUNCTION	0.35	1.30	182.07	0	08:53	1.30
J102	JUNCTION	0.46	1.74	182.04	0	08:58	1.74
J105	JUNCTION	0.00	0.00	183.98	0	00:00	0.00
J106	JUNCTION	0.00	0.00	183.62	0	00:00	0.00

J110	JUNCTION	0.27	1.39	182.22	0	08:53	1.32
J113	JUNCTION	0.24	1.25	182.17	0	08:53	1.25
J115	JUNCTION	0.00	0.15	183.22	0	09:19	0.13
J116	JUNCTION	0.00	0.00	176.45	0	00:00	0.00
J12	JUNCTION	0.02	0.09	183.41	0	09:07	0.08
J125	JUNCTION	1.00	2.01	180.40	0	09:07	1.81
J127	JUNCTION	0.07	2.36	183.07	0	09:07	0.47
J128	JUNCTION	0.12	2.45	183.37	0	09:04	0.96
J15	JUNCTION	0.03	0.11	180.82	0	09:08	0.11
J2	JUNCTION	0.03	0.15	183.02	0	09:12	0.15
J20	JUNCTION	0.03	0.11	179.62	0	09:09	0.11
J24	JUNCTION	0.12	0.39	178.15	0	09:09	0.39
J3	JUNCTION	0.05	0.24	181.82	0	09:19	0.24
J30	JUNCTION	0.00	0.00	186.43	0	00:00	0.00
J31	JUNCTION	0.00	0.00	185.91	0	00:00	0.00
J34	JUNCTION	0.00	1.36	183.10	0	09:18	0.14
J35	JUNCTION	0.00	0.01	182.00	0	09:18	0.01
J36	JUNCTION	0.00	0.00	179.96	0	00:00	0.00
J38	JUNCTION	0.00	0.00	180.00	0	00:00	0.00
J4	JUNCTION	0.00	0.00	185.20	0	00:00	0.00
J42	JUNCTION	0.00	0.00	179.01	0	00:00	0.00
J43	JUNCTION	0.00	0.00	178.80	0	00:00	0.00
J47	JUNCTION	0.01	0.28	180.27	0	09:06	0.22
J48	JUNCTION	0.00	0.00	180.60	0	00:00	0.00
J49	JUNCTION	0.03	1.26	182.18	0	09:07	0.62
J5	JUNCTION	0.02	0.11	184.96	0	09:07	0.10
J50	JUNCTION	0.00	0.00	178.47	0	00:00	0.00
J52	JUNCTION	0.16	0.44	179.12	0	09:05	0.44
J55	JUNCTION	0.15	0.41	178.91	0	09:06	0.41
J6	JUNCTION	0.02	0.10	181.33	0	09:21	0.10
J62	JUNCTION	0.14	0.40	178.77	0	09:06	0.40
J66	JUNCTION	0.00	0.00	176.80	0	00:00	0.00
J67	JUNCTION	0.00	0.00	176.71	0	00:00	0.00
J7	JUNCTION	0.04	0.33	182.72	0	09:06	0.31
J70	JUNCTION	0.07	0.22	176.14	0	09:09	0.22
J78	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J8	JUNCTION	0.02	0.16	184.55	0	09:13	0.15
J83	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J91	JUNCTION	0.96	1.61	179.98	0	09:07	1.50
J93	JUNCTION	0.04	0.74	182.90	0	09:08	0.59
J95	JUNCTION	0.03	0.64	183.02	0	09:09	0.38

J98	JUNCTION	0.16	0.86	182.04	0	08:59	0.86
MH_1	JUNCTION	0.10	0.27	181.51	0	08:49	0.27
MH_11	JUNCTION	0.08	3.33	186.45	0	09:04	1.40
MH_14	JUNCTION	0.17	2.84	186.59	0	09:01	2.84
MH_15	JUNCTION	0.12	3.11	185.85	0	09:04	1.60
MH_16	JUNCTION	0.15	3.03	185.62	0	09:03	1.63
MH_17	JUNCTION	0.28	2.72	184.86	0	09:03	1.55
MH_2	JUNCTION	0.12	0.31	180.91	0	08:50	0.31
MH_27	JUNCTION	0.17	2.54	185.62	0	09:02	2.54
MH_29	JUNCTION	0.04	1.74	185.65	0	09:03	1.07
MH_30	JUNCTION	0.09	2.19	185.27	0	09:03	1.90
MH_34	JUNCTION	0.18	2.94	186.07	0	09:02	2.94
MH_35	JUNCTION	0.19	2.96	185.69	0	09:02	2.64
MH_36	JUNCTION	0.20	2.91	185.55	0	09:02	2.66
MH_37	JUNCTION	0.32	2.83	185.08	0	09:04	2.73
MH_38	JUNCTION	0.39	2.54	184.57	0	09:04	2.39
MH_39	JUNCTION	0.56	2.12	183.79	0	09:04	1.84
MH_43	JUNCTION	0.09	1.74	184.30	0	09:06	0.62
MH_45	JUNCTION	0.24	1.89	184.03	0	09:04	1.03
MH_47	JUNCTION	0.63	1.98	183.54	0	09:04	1.62
MH_56	JUNCTION	0.11	0.83	184.00	0	08:59	0.66
MH_57	JUNCTION	0.08	0.30	183.14	0	09:18	0.30
MH_58	JUNCTION	0.09	0.34	183.03	0	09:38	0.34
MH_59	JUNCTION	0.00	0.00	183.44	0	00:00	0.00
MH_61	JUNCTION	0.00	0.00	183.17	0	00:00	0.00
MH_63	JUNCTION	0.14	0.44	182.90	0	09:39	0.44
MH_64	JUNCTION	0.22	0.66	182.87	0	09:47	0.66
MH_65	JUNCTION	0.37	1.00	182.87	0	10:28	0.99
MH_66	JUNCTION	0.40	1.05	182.87	0	10:30	1.03
MH_67	JUNCTION	0.76	1.53	182.86	0	10:27	1.51
MH_68	JUNCTION	0.90	1.73	182.85	0	10:30	1.72
MH_69	JUNCTION	0.18	0.35	180.61	0	10:30	0.35
MH_70	JUNCTION	0.18	0.34	180.01	0	10:30	0.34
MH1	JUNCTION	0.12	2.89	184.00	0	09:03	2.84
MH1_Main	JUNCTION	0.13	1.77	185.62	0	09:08	0.90
MH10	JUNCTION	0.36	3.57	183.07	0	09:04	2.43
MH10__S	JUNCTION	0.01	0.23	183.38	0	09:08	0.20
MH10_Main	JUNCTION	0.16	2.27	179.05	0	09:05	0.55
MH11	JUNCTION	0.26	2.78	182.08	0	09:04	2.16
MH11__S	JUNCTION	0.14	0.91	183.68	0	09:02	0.58
MH11_Main	JUNCTION	0.08	0.22	176.56	0	09:12	0.22

MH12	JUNCTION	0.04	1.32	182.52	0	09:04	0.68
MH13	JUNCTION	0.33	1.71	180.51	0	09:05	1.69
MH13_Main	JUNCTION	0.04	0.39	181.65	0	09:11	0.38
MH13_Main_	JUNCTION	0.09	1.61	182.36	0	09:07	0.84
MH14	JUNCTION	0.19	1.61	179.96	0	09:05	1.59
MH14_Main	JUNCTION	0.14	1.84	182.39	0	09:07	1.03
MH15	JUNCTION	0.18	1.34	179.54	0	09:05	1.32
MH15_Main	JUNCTION	0.14	1.64	182.13	0	09:07	1.04
MH16	JUNCTION	0.15	0.91	178.91	0	09:05	0.90
MH2	JUNCTION	0.18	2.95	183.95	0	09:03	2.95
MH2_Main	JUNCTION	0.25	1.52	184.87	0	10:06	1.40
MH2_S	JUNCTION	0.04	0.49	184.44	0	09:06	0.31
MH21	JUNCTION	0.23	1.98	183.10	0	09:03	1.98
MH21_S	JUNCTION	0.05	0.41	183.21	0	09:13	0.39
MH22	JUNCTION	0.33	2.21	182.90	0	09:03	2.12
MH23	JUNCTION	0.24	2.04	182.80	0	09:02	1.96
MH24	JUNCTION	0.28	2.18	182.77	0	09:08	1.99
MH25	JUNCTION	0.16	2.19	182.29	0	09:08	0.86
MH25-1	JUNCTION	0.19	2.08	182.34	0	09:08	1.01
MH26	JUNCTION	0.08	0.29	180.05	0	09:09	0.28
MH3	JUNCTION	0.18	3.19	184.11	0	09:03	2.94
MH3_Main	JUNCTION	0.21	1.52	184.34	0	09:13	1.43
MH3_S	JUNCTION	0.02	0.17	184.28	0	09:07	0.15
MH30	JUNCTION	0.10	2.79	182.22	0	09:11	1.57
MH31	JUNCTION	0.10	1.85	181.17	0	09:10	1.14
MH32	JUNCTION	0.11	1.69	180.89	0	09:05	1.23
MH33	JUNCTION	0.15	1.60	180.72	0	09:05	1.25
MH34	JUNCTION	0.05	0.38	179.44	0	09:11	0.38
MH34_S	JUNCTION	0.02	0.11	181.59	0	09:08	0.11
MH35	JUNCTION	0.06	0.48	179.42	0	09:11	0.47
MH36	JUNCTION	0.06	0.62	179.45	0	09:11	0.56
MH36_S	JUNCTION	0.02	0.11	182.08	0	09:10	0.11
MH37	JUNCTION	0.00	0.00	179.80	0	00:00	0.00
MH37_S	JUNCTION	0.00	0.00	182.34	0	00:00	0.00
MH38	JUNCTION	0.00	0.25	179.80	0	09:11	0.20
MH39	JUNCTION	0.01	0.39	179.81	0	09:11	0.34
MH4	JUNCTION	0.17	3.46	184.16	0	09:04	2.85
MH4_Main	JUNCTION	0.26	2.60	184.26	0	09:05	1.72
MH40	JUNCTION	0.12	1.27	180.10	0	09:05	1.00
MH41	JUNCTION	0.09	0.90	179.58	0	09:06	0.71
MH41_S	JUNCTION	0.11	0.25	182.10	0	09:09	0.24

MH42	JUNCTION	0.12	0.26	177.70	0	09:52	0.26
MH43	JUNCTION	0.12	0.25	177.54	0	09:53	0.25
MH5	JUNCTION	0.09	2.55	185.00	0	09:05	0.82
MH5_Main	JUNCTION	0.41	2.08	182.83	0	09:05	2.08
MH6	JUNCTION	0.08	2.14	184.46	0	09:04	0.85
MH6_Main	JUNCTION	0.33	2.28	182.52	0	09:41	1.17
MH7	JUNCTION	0.09	1.90	184.00	0	09:07	0.94
MH7_Main	JUNCTION	0.08	0.24	180.49	0	09:11	0.24
MH8	JUNCTION	0.17	3.14	183.65	0	09:04	2.80
MH8_Main	JUNCTION	0.45	1.91	179.47	0	09:06	1.91
MH8_S	JUNCTION	0.02	0.10	184.06	0	09:08	0.10
MH9	JUNCTION	0.19	3.20	183.47	0	09:04	2.81
MH9__S	JUNCTION	0.04	0.58	183.81	0	09:09	0.58
MH9_Main	JUNCTION	0.15	1.93	179.54	0	09:07	0.58
MJ_	JUNCTION	0.00	0.00	182.63	0	00:00	0.00
MJ1	JUNCTION	0.06	0.22	177.69	0	09:16	0.22
MJ10	JUNCTION	0.01	0.05	183.55	0	09:07	0.04
MJ100	JUNCTION	0.03	0.16	182.42	0	09:06	0.15
MJ101	JUNCTION	0.02	0.11	183.80	0	09:06	0.10
MJ102	JUNCTION	0.48	0.68	183.54	1	00:00	0.68
MJ103	JUNCTION	0.04	0.14	183.15	0	09:22	0.14
MJ104	JUNCTION	0.01	0.08	184.28	0	09:10	0.08
MJ105	JUNCTION	0.40	2.00	186.47	0	09:04	0.61
MJ106	JUNCTION	0.00	0.00	183.57	0	00:00	0.00
MJ107	JUNCTION	0.02	0.09	184.26	0	09:13	0.09
MJ108	JUNCTION	0.01	0.07	185.74	0	09:06	0.06
MJ109	JUNCTION	0.00	0.00	184.90	0	00:00	0.00
MJ11	JUNCTION	0.00	0.00	178.72	0	00:00	0.00
MJ110	JUNCTION	0.11	0.21	182.24	0	09:08	0.21
MJ111	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MJ112	JUNCTION	0.03	0.17	180.80	0	09:08	0.17
MJ113	JUNCTION	0.02	0.06	184.30	0	09:19	0.06
MJ114	JUNCTION	0.01	0.03	184.56	0	09:11	0.03
MJ115	JUNCTION	0.01	0.06	185.49	0	09:05	0.05
MJ116	JUNCTION	0.04	0.22	182.19	0	09:26	0.22
MJ117	JUNCTION	0.00	0.01	185.55	0	09:08	0.01
MJ118	JUNCTION	0.20	0.39	185.10	0	09:14	0.38
MJ119	JUNCTION	0.29	0.47	180.68	0	09:10	0.47
MJ12	JUNCTION	0.03	0.15	179.16	0	09:06	0.14
MJ120	JUNCTION	0.27	0.38	184.30	0	09:19	0.38
MJ121	JUNCTION	0.00	0.00	186.66	0	00:00	0.00

MJ122	JUNCTION	0.02	0.12	184.37	0	09:07	0.11
MJ123	JUNCTION	0.00	0.00	187.14	0	00:00	0.00
MJ124	JUNCTION	0.14	0.30	180.68	0	09:10	0.30
MJ125	JUNCTION	0.02	0.10	186.21	0	09:06	0.09
MJ126	JUNCTION	0.00	0.00	185.15	0	00:00	0.00
MJ127	JUNCTION	0.01	0.07	185.94	0	09:06	0.07
MJ128	JUNCTION	0.02	0.13	182.22	0	09:07	0.13
MJ129	JUNCTION	0.08	0.41	182.19	0	09:24	0.41
MJ13	JUNCTION	0.02	0.11	178.71	0	09:06	0.10
MJ130	JUNCTION	0.03	0.15	186.22	0	09:06	0.14
MJ131	JUNCTION	0.01	0.05	184.30	0	09:05	0.04
MJ132	JUNCTION	0.09	0.46	182.19	0	09:23	0.44
MJ133	JUNCTION	0.00	0.00	186.56	0	00:00	0.00
MJ134	JUNCTION	0.24	0.75	182.14	0	09:52	0.75
MJ135	JUNCTION	0.02	0.12	183.37	0	09:10	0.12
MJ136	JUNCTION	0.01	0.05	183.41	0	09:08	0.05
MJ137	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
MJ138	JUNCTION	0.00	0.00	187.83	0	00:00	0.00
MJ139	JUNCTION	0.01	0.09	182.02	0	09:05	0.06
MJ14	JUNCTION	0.01	0.09	181.57	0	09:08	0.09
MJ140	JUNCTION	0.00	0.02	182.19	0	09:17	0.02
MJ142	JUNCTION	0.02	0.19	182.82	0	09:12	0.17
MJ143	JUNCTION	0.01	0.08	184.24	0	09:08	0.08
MJ144	JUNCTION	0.00	0.00	182.85	0	00:00	0.00
MJ145	JUNCTION	0.03	0.17	182.70	0	09:09	0.17
MJ146	JUNCTION	0.13	2.00	184.36	0	09:04	0.83
MJ147	JUNCTION	0.04	0.20	183.20	0	09:15	0.18
MJ148	JUNCTION	0.05	0.23	183.24	0	09:09	0.23
MJ149	JUNCTION	0.02	0.29	184.29	0	09:08	0.26
MJ15	JUNCTION	0.01	0.08	188.61	0	09:07	0.08
MJ150	JUNCTION	0.00	0.00	184.44	0	00:00	0.00
MJ151	JUNCTION	0.04	0.30	183.68	0	09:17	0.29
MJ152	JUNCTION	0.04	0.20	183.90	0	09:09	0.20
MJ153	JUNCTION	0.02	0.14	184.46	0	09:14	0.14
MJ154	JUNCTION	0.05	0.26	184.74	0	09:09	0.26
MJ155	JUNCTION	0.02	0.13	185.31	0	09:10	0.13
MJ156	JUNCTION	0.00	0.00	185.85	0	00:00	0.00
MJ157	JUNCTION	0.00	0.00	186.21	0	00:00	0.00
MJ158	JUNCTION	0.00	0.00	183.48	0	00:00	0.00
MJ16	JUNCTION	0.01	0.04	178.69	0	09:15	0.04
MJ17	JUNCTION	0.01	0.05	181.88	0	09:06	0.04

MJ18	JUNCTION	0.02	0.10	183.46	0	09:09	0.10
MJ19	JUNCTION	0.10	0.17	181.16	0	09:06	0.17
MJ2	JUNCTION	0.02	0.11	177.86	0	09:09	0.11
MJ20	JUNCTION	0.01	0.05	183.33	0	09:08	0.05
MJ21	JUNCTION	0.02	0.10	179.03	0	09:08	0.10
MJ22	JUNCTION	0.23	0.42	186.58	0	09:07	0.41
MJ23	JUNCTION	0.01	0.06	179.33	0	09:06	0.06
MJ24	JUNCTION	0.17	0.82	182.63	0	09:36	0.82
MJ25	JUNCTION	0.03	0.14	183.59	0	09:07	0.13
MJ26	JUNCTION	0.03	0.12	183.00	0	09:09	0.12
MJ27	JUNCTION	0.05	0.16	179.98	0	09:19	0.16
MJ28	JUNCTION	0.00	0.00	183.09	0	00:00	0.00
MJ29	JUNCTION	0.34	0.47	181.51	1	00:00	0.47
MJ3	JUNCTION	0.05	0.18	177.57	0	09:08	0.18
MJ30	JUNCTION	0.03	0.15	181.50	0	09:08	0.15
MJ31	JUNCTION	0.02	0.10	181.17	0	09:09	0.10
MJ32	JUNCTION	0.01	0.07	182.01	0	09:08	0.07
MJ33	JUNCTION	0.01	0.07	181.76	0	09:12	0.07
MJ34	JUNCTION	0.01	0.07	179.76	0	09:06	0.06
MJ35	JUNCTION	0.06	0.20	180.35	0	09:19	0.20
MJ36	JUNCTION	0.04	0.19	182.86	0	09:08	0.18
MJ37	JUNCTION	0.01	0.06	178.70	0	09:11	0.06
MJ38	JUNCTION	0.05	0.16	181.83	0	09:09	0.16
MJ39	JUNCTION	0.00	0.00	183.95	0	00:00	0.00
MJ4	JUNCTION	0.00	0.00	179.70	0	00:00	0.00
MJ40	JUNCTION	0.00	0.03	182.95	0	09:15	0.03
MJ41	JUNCTION	0.01	0.10	183.59	0	09:11	0.10
MJ42	JUNCTION	0.05	0.18	180.84	0	09:19	0.18
MJ43	JUNCTION	0.00	0.00	186.65	0	00:00	0.00
MJ44	JUNCTION	0.01	0.05	183.45	0	09:13	0.05
MJ45	JUNCTION	0.00	0.03	184.83	0	09:06	0.03
MJ46	JUNCTION	0.01	0.04	181.60	0	09:07	0.04
MJ47	JUNCTION	0.07	0.15	182.98	0	09:07	0.15
MJ48	JUNCTION	0.12	0.44	176.88	0	09:19	0.44
MJ49	JUNCTION	0.01	0.04	182.94	0	09:11	0.04
MJ5	JUNCTION	0.02	0.13	183.75	0	09:05	0.10
MJ50	JUNCTION	0.20	0.30	182.90	0	23:59	0.30
MJ51	JUNCTION	0.01	0.04	181.08	0	09:07	0.04
MJ52	JUNCTION	0.22	0.31	182.90	0	23:59	0.31
MJ53	JUNCTION	0.00	0.02	182.27	0	09:07	0.02
MJ54	JUNCTION	0.00	0.00	182.45	0	00:00	0.00

MJ55	JUNCTION	0.02	0.11	178.65	0	09:08	0.11
MJ56	JUNCTION	0.00	0.02	182.94	0	09:07	0.02
MJ57	JUNCTION	0.01	0.08	178.91	0	09:08	0.08
MJ58	JUNCTION	0.36	0.48	182.90	0	23:58	0.48
MJ59	JUNCTION	0.33	0.44	182.39	1	00:00	0.44
MJ60	JUNCTION	0.02	0.09	180.10	0	09:07	0.09
MJ61	JUNCTION	0.44	0.60	181.35	1	00:00	0.60
MJ62	JUNCTION	0.00	0.00	183.87	0	00:00	0.00
MJ63	JUNCTION	0.05	0.17	182.40	0	09:19	0.17
MJ64	JUNCTION	0.10	0.23	182.40	0	09:19	0.23
MJ65	JUNCTION	0.01	0.06	182.54	0	09:06	0.06
MJ66	JUNCTION	0.01	0.06	180.36	0	09:08	0.06
MJ67	JUNCTION	0.07	0.25	186.24	0	09:09	0.25
MJ68	JUNCTION	0.00	0.00	184.22	0	00:00	0.00
MJ69	JUNCTION	0.01	0.09	182.38	0	09:07	0.08
MJ7	JUNCTION	0.04	0.17	186.76	0	09:08	0.17
MJ70	JUNCTION	0.02	0.08	183.34	0	09:07	0.08
MJ71	JUNCTION	0.02	0.10	179.11	0	09:06	0.10
MJ72	JUNCTION	0.07	0.22	182.66	0	09:18	0.22
MJ73	JUNCTION	0.01	0.10	182.45	0	09:08	0.10
MJ74	JUNCTION	0.05	0.24	182.89	0	09:18	0.24
MJ75	JUNCTION	0.03	0.11	183.08	0	09:20	0.11
MJ76	JUNCTION	0.01	0.06	183.80	0	09:07	0.05
MJ77	JUNCTION	0.01	0.06	182.42	0	09:06	0.05
MJ78	JUNCTION	0.01	0.07	183.20	0	09:08	0.07
MJ79	JUNCTION	0.03	0.15	182.80	0	09:20	0.15
MJ8	JUNCTION	0.00	0.00	189.00	0	00:00	0.00
MJ80	JUNCTION	0.01	0.08	182.80	0	09:06	0.07
MJ81	JUNCTION	0.03	0.13	183.28	0	09:06	0.13
MJ82	JUNCTION	0.03	0.16	182.85	0	09:19	0.16
MJ83	JUNCTION	0.08	0.24	182.72	0	09:13	0.22
MJ84	JUNCTION	0.01	0.05	185.70	0	09:05	0.04
MJ85	JUNCTION	0.01	0.08	183.97	0	09:16	0.07
MJ86	JUNCTION	0.01	0.06	184.42	0	09:06	0.05
MJ87	JUNCTION	0.09	0.23	183.55	0	09:08	0.22
MJ88	JUNCTION	0.00	0.00	183.05	0	00:00	0.00
MJ89	JUNCTION	0.04	0.14	182.90	0	09:10	0.14
MJ9	JUNCTION	0.02	0.12	178.75	0	09:06	0.11
MJ90	JUNCTION	0.37	0.50	182.17	1	00:00	0.50
MJ91	JUNCTION	0.01	0.04	184.18	0	09:08	0.04
MJ92	JUNCTION	0.02	0.09	186.05	0	09:08	0.09

MJ93	JUNCTION	0.01	0.09	185.05	0	09:14	0.08
MJ94	JUNCTION	0.10	0.14	184.66	1	00:00	0.14
MJ95	JUNCTION	0.04	0.16	181.32	0	09:07	0.15
MJ96	JUNCTION	0.04	0.12	183.04	0	09:30	0.12
MJ97	JUNCTION	0.50	0.72	183.15	0	09:21	0.72
MJ98	JUNCTION	0.03	0.14	183.51	0	09:09	0.14
MJ99	JUNCTION	0.01	0.06	185.44	0	09:09	0.06
OGS-	JUNCTION	0.10	0.25	180.74	0	08:50	0.25
RICE_POND_OUTLET	JUNCTION	0.18	0.33	181.15	0	10:30	0.33
OF10-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF11-M	OUTFALL	0.00	0.00	183.10	0	00:00	0.00
OF12-	OUTFALL	0.04	0.54	179.69	0	09:09	0.54
OF13-	OUTFALL	0.10	0.25	180.56	0	08:50	0.25
OF14-	OUTFALL	0.18	0.34	179.89	0	10:30	0.34
OF15-	OUTFALL	0.00	0.00	177.00	0	00:00	0.00
OF16-	OUTFALL	0.05	0.19	177.19	0	09:09	0.19
OF17-	OUTFALL	0.14	0.68	178.48	0	09:06	0.68
OF18-M	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF19-	OUTFALL	0.03	0.13	178.28	0	09:10	0.13
OF1-M	OUTFALL	0.12	0.43	175.43	0	09:19	0.43
OF20-	OUTFALL	0.11	0.30	179.45	0	09:07	0.29
OF21-	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF22_M	OUTFALL	0.00	0.02	181.27	0	09:09	0.02
OF23-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF24-	OUTFALL	0.08	0.28	177.54	0	09:09	0.28
OF25-	OUTFALL	0.09	0.25	177.84	0	08:56	0.25
OF26-M	OUTFALL	0.03	0.17	178.69	0	09:10	0.17
OF27-1	OUTFALL	0.10	0.21	177.40	0	09:53	0.21
OF27-M	OUTFALL	0.02	0.10	178.96	0	09:21	0.10
OF28-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF29-	OUTFALL	0.00	0.00	178.63	0	00:00	0.00
OF2-M	OUTFALL	0.04	0.16	177.26	0	09:19	0.16
OF2-M-	OUTFALL	0.01	0.09	177.19	0	09:06	0.08
OF3-	OUTFALL	0.08	0.22	176.22	0	09:12	0.22
OF30-M	OUTFALL	0.02	0.08	179.91	0	09:07	0.08
OF31-M	OUTFALL	0.02	0.11	181.49	0	09:09	0.11
OF32-M	OUTFALL	0.04	0.22	185.14	0	09:07	0.21
OF33-	OUTFALL	0.12	0.39	177.42	0	09:09	0.39
OF34-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF35-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF36-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00

OF37-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF38-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF39-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF3-M	OUTFALL	0.02	0.11	177.84	0	09:06	0.10
OF40-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF41-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF42-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF43-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF44-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF45-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF46-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF47-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF48-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF49-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF4-M	OUTFALL	0.01	0.07	175.69	0	09:06	0.07
OF50	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF51	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF52	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF53	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF54	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF55	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF56	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF57	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF58	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF59	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF5-M	OUTFALL	0.01	0.04	182.90	0	09:20	0.04
OF6-	OUTFALL	0.06	0.22	175.72	0	09:09	0.22
OF60	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF61	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF62	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF7-M	OUTFALL	0.03	0.17	177.31	0	09:08	0.17
OF8-	OUTFALL	0.00	0.00	176.00	0	00:00	0.00
OF9-M	OUTFALL	0.03	0.16	179.20	0	09:07	0.15
Gill_RD_Pond	STORAGE	1.05	1.98	178.63	0	09:52	1.98
Rice_Pond	STORAGE	2.72	3.59	182.84	0	10:29	3.59

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent	
CB15	JUNCTION	0.262	0.262	0	09:05	0.374	0.374	0.030	
CB16	JUNCTION	0.000	0.052	0	09:04	0	0.000776	1.185	
CB17	JUNCTION	0.183	0.183	0	09:05	0.262	0.262	0.105	
CB18	JUNCTION	0.000	0.084	0	09:04	0	0.000483	-1.918	
CB19	JUNCTION	0.150	0.150	0	09:05	0.215	0.215	0.012	
CB20	JUNCTION	0.218	0.283	0	09:02	0.311	0.502	0.009	
CB21	JUNCTION	0.000	0.055	0	09:02	0	0.00064	-2.238	
CB22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB23	JUNCTION	0.041	0.041	0	09:05	0.0584	0.0584	0.013	
CB26	JUNCTION	0.000	0.725	0	09:09	0	0.816	-0.369	
CB27	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB30	JUNCTION	0.000	0.018	0	09:08	0	8.49e-05	2.238	
CB30_1	JUNCTION	0.000	0.093	0	09:08	0	0.00109	-2.843	
CB31	JUNCTION	0.000	0.085	0	09:07	0	0.135	-0.189	
CB32	JUNCTION	0.000	0.091	0	09:15	0	0.2	-0.024	
CB33	JUNCTION	0.000	0.090	0	10:11	0	0.0786	0.129	
CB34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB35	JUNCTION	0.000	0.012	0	09:13	0	0.000258	0.619	
CB41	JUNCTION	0.000	0.098	0	09:06	0	0.124	-0.637	
CB42	JUNCTION	0.000	0.105	0	09:29	0	0.209	0.619	
CB-58	JUNCTION	0.000	0.624	0	09:09	0	3.58	0.030	
CBMH_1	JUNCTION	3.040	3.040	0	09:05	4.73	4.73	0.021	
CBMH_40	JUNCTION	0.000	0.038	0	09:05	0	0.00213	-0.870	
CBMH_41	JUNCTION	0.000	0.086	0	09:04	0	0.00685	-0.412	
CBMH_42	JUNCTION	0.000	0.037	0	09:04	0	0.0052	-0.075	
CBMH_44	JUNCTION	0.000	0.076	0	09:04	0	0.0108	-0.487	
CBMH_46	JUNCTION	0.000	0.312	0	09:04	0	0.0411	-0.054	
CBMH_62	JUNCTION	0.000	0.009	0	09:19	0	0.00469	0.093	
CBMH1	JUNCTION	0.000	0.060	0	09:04	0	0.00337	14.285	
CBMH1_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH10_Main	JUNCTION	0.000	0.207	0	09:10	0	0.813	0.005	
CBMH2	JUNCTION	0.000	0.011	0	09:05	0	0.0971	0.019	
CBMH2_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH3_ON	JUNCTION	0.000	0.008	0	09:05	0	0.0015	1.138	

CBMH4_ON	JUNCTION	0.000	0.018	0	09:05	0	0.01	15.299	
CBMH5	JUNCTION	0.000	0.262	0	09:09	0	1.34	0.007	
CBMH5_ON	JUNCTION	0.060	0.104	0	09:06	0.0865	0.395	0.212	
CBMH6_ON	JUNCTION	0.000	0.095	0	09:09	0	0.386	0.192	
CBMH7	JUNCTION	0.000	0.118	0	09:04	0	0.00107	-6.529	
CBMH7_ON	JUNCTION	0.000	0.094	0	09:10	0	0.385	-0.219	
CBMH8_ON	JUNCTION	0.000	0.208	0	09:09	0	0.815	0.233	
CBMH9_ON	JUNCTION	0.000	0.207	0	09:10	0	0.813	0.002	
DCB72	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
DICBMH42	JUNCTION	0.000	0.135	0	09:52	0	2.25	0.037	
J1	JUNCTION	0.687	0.687	0	09:05	1.09	1.09	-0.069	
J101	JUNCTION	0.000	0.391	0	09:06	0	2.16	0.394	
J102	JUNCTION	0.000	0.367	0	09:05	0	2.88	0.850	
J105	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J110	JUNCTION	0.000	0.025	0	09:05	0	0.194	-1.818	
J113	JUNCTION	0.000	0.081	0	09:13	0	0.266	0.636	
J115	JUNCTION	0.000	0.010	0	09:06	0	0.00163	0.900	
J116	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J12	JUNCTION	0.000	0.049	0	09:07	0	0.169	0.021	
J125	JUNCTION	0.000	0.607	0	09:07	0	7.21	0.111	
J127	JUNCTION	0.193	0.323	0	09:04	0.276	1.15	0.124	
J128	JUNCTION	0.000	0.229	0	09:15	0	0.868	-0.500	
J15	JUNCTION	0.000	0.049	0	09:07	0	0.169	0.029	
J2	JUNCTION	0.000	0.146	0	09:09	0	0.524	0.072	
J20	JUNCTION	0.000	0.049	0	09:08	0	0.169	0.132	
J24	JUNCTION	0.000	0.580	0	09:09	0	4.4	0.009	
J3	JUNCTION	0.000	0.143	0	09:12	0	0.524	0.420	
J30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J31	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J34	JUNCTION	0.000	0.010	0	09:04	0	0.00113	0.801	
J35	JUNCTION	0.000	0.002	0	09:18	0	1.98e-05	0.215	ltr
J36	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J38	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J47	JUNCTION	0.000	0.013	0	09:04	0	0.000888	0.014	
J48	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J49	JUNCTION	0.000	0.034	0	09:06	0	0.00219	-0.430	
J5	JUNCTION	0.000	0.049	0	09:07	0	0.169	0.037	

J50	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J52	JUNCTION	0.000	0.316	0	09:05	0	3.31	0.027	
J55	JUNCTION	0.000	0.317	0	09:06	0	3.31	0.000	
J6	JUNCTION	0.000	0.136	0	09:20	0	0.522	0.103	
J62	JUNCTION	0.000	0.317	0	09:06	0	3.31	0.008	
J66	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J67	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J7	JUNCTION	0.000	0.451	0	09:05	0	0.567	0.182	
J70	JUNCTION	0.000	0.105	0	09:08	0	0.714	0.015	
J78	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J8	JUNCTION	0.000	1.166	0	09:11	0	1.91	0.439	
J83	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J91	JUNCTION	0.000	0.606	0	09:07	0	7.21	0.039	
J93	JUNCTION	0.000	0.055	0	09:10	0	0.188	0.051	
J95	JUNCTION	0.000	0.055	0	09:10	0	0.188	0.037	
J98	JUNCTION	0.000	0.068	0	09:10	0	0.233	-0.769	
MH_1	JUNCTION	0.000	0.168	0	09:38	0	1.91	0.025	
MH_11	JUNCTION	0.193	0.193	0	09:05	0.392	0.392	0.057	
MH_14	JUNCTION	0.448	0.448	0	09:05	0.908	0.908	0.157	
MH_15	JUNCTION	0.000	0.476	0	09:03	0	1.21	-0.107	
MH_16	JUNCTION	0.000	0.463	0	09:05	0	1.21	0.013	
MH_17	JUNCTION	0.000	0.463	0	09:05	0	1.21	0.059	
MH_2	JUNCTION	0.000	0.168	0	08:50	0	1.9	0.007	
MH_27	JUNCTION	0.910	0.910	0	09:05	1.84	1.84	0.260	
MH_29	JUNCTION	0.000	0.054	0	09:03	0	0.00194	-0.328	
MH_30	JUNCTION	0.000	0.178	0	09:03	0	0.00683	-0.791	
MH_34	JUNCTION	0.435	0.435	0	09:05	0.881	0.881	0.466	
MH_35	JUNCTION	0.000	0.347	0	09:03	0	0.825	-0.273	
MH_36	JUNCTION	0.000	0.347	0	09:03	0	0.827	0.082	
MH_37	JUNCTION	0.000	1.096	0	09:03	0	2.87	-0.337	
MH_38	JUNCTION	0.000	1.056	0	09:03	0	2.87	0.116	
MH_39	JUNCTION	0.000	1.691	0	09:05	0	5.58	-0.072	
MH_43	JUNCTION	0.000	0.049	0	09:04	0	0.00825	-0.020	
MH_45	JUNCTION	0.000	0.165	0	09:04	0	0.025	-0.125	
MH_47	JUNCTION	0.000	1.692	0	09:05	0	5.61	0.459	
MH_56	JUNCTION	0.000	0.222	0	09:08	0	0.776	5.156	
MH_57	JUNCTION	0.000	0.100	0	09:18	0	0.717	0.019	
MH_58	JUNCTION	0.000	0.098	0	09:19	0	0.717	0.078	
MH_59	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_61	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_63	JUNCTION	0.000	0.097	0	09:18	0	0.721	0.289	

MH_64	JUNCTION	0.000	0.092	0	09:17	0	0.714	-0.092
MH_65	JUNCTION	0.000	0.247	0	09:14	0	1.24	-0.031
MH_66	JUNCTION	0.000	0.247	0	09:14	0	1.24	0.102
MH_67	JUNCTION	0.000	1.914	0	09:09	0	6.8	-0.034
MH_68	JUNCTION	0.000	1.911	0	09:09	0	6.8	0.035
MH_69	JUNCTION	0.000	0.293	0	10:30	0	6.88	0.027
MH_70	JUNCTION	0.000	0.293	0	10:30	0	6.87	0.004
MH1	JUNCTION	0.000	0.036	0	09:03	0	0.000726	4.627
MH1_Main	JUNCTION	0.000	0.078	0	09:08	0	0.145	-0.007
MH10	JUNCTION	0.000	1.213	0	09:08	0	3.42	-0.000
MH10__S	JUNCTION	0.000	0.710	0	09:06	0	0.312	1.771
MH10_Main	JUNCTION	0.000	0.340	0	09:07	0	2.98	0.329
MH11	JUNCTION	0.000	1.748	0	09:07	0	4.82	0.047
MH11__S	JUNCTION	0.000	0.796	0	09:05	0	1.07	3.077
MH11_Main	JUNCTION	0.000	0.310	0	09:07	0	2.96	0.012
MH12	JUNCTION	0.000	0.283	0	09:02	0	0.501	0.061
MH13	JUNCTION	0.000	1.858	0	09:08	0	5.16	0.115
MH13_Main	JUNCTION	0.000	0.088	0	09:08	0	0.197	0.800
MH13_Main_	JUNCTION	0.000	0.084	0	09:07	0	0.197	-0.562
MH14	JUNCTION	0.000	1.313	0	09:05	0	4.75	0.015
MH14_Main	JUNCTION	0.000	0.083	0	09:11	0	0.207	-0.079
MH15	JUNCTION	0.000	1.313	0	09:05	0	4.75	0.002
MH15_Main	JUNCTION	0.000	0.083	0	09:11	0	0.213	0.183
MH16	JUNCTION	0.000	1.324	0	09:05	0	4.84	0.007
MH2	JUNCTION	0.000	0.316	0	09:05	0	1.09	0.008
MH2_Main	JUNCTION	0.000	0.382	0	10:11	0	1.81	0.020
MH2_S	JUNCTION	0.476	0.724	0	09:03	0.681	1.18	0.113
MH21	JUNCTION	0.000	0.316	0	09:08	0	1.08	9.455
MH21_S	JUNCTION	0.899	1.727	0	09:05	1.28	2.7	0.021
MH22	JUNCTION	0.000	0.154	0	09:40	0	0.616	1.574
MH23	JUNCTION	0.000	0.154	0	09:40	0	0.608	-0.021
MH24	JUNCTION	0.000	0.470	0	09:40	0	3.01	0.023
MH25	JUNCTION	0.000	0.624	0	09:09	0	3.58	0.006
MH25-1	JUNCTION	0.000	0.624	0	09:09	0	3.58	0.018
MH26	JUNCTION	0.000	0.624	0	09:09	0	3.58	0.005
MH3	JUNCTION	0.000	0.454	0	09:05	0	1.41	0.067
MH3_Main	JUNCTION	0.000	0.150	0	09:12	0	1.75	-0.049
MH3_S	JUNCTION	0.586	0.743	0	09:06	0.837	0.891	-0.035
MH30	JUNCTION	0.000	0.202	0	09:08	0	0.666	-2.836
MH31	JUNCTION	0.000	0.179	0	09:06	0	0.686	0.646
MH32	JUNCTION	0.000	0.281	0	09:09	0	0.99	-0.067

MH33	JUNCTION	0.000	0.281	0	09:09	0	0.99	-0.235	
MH34	JUNCTION	0.000	0.107	0	09:08	0	0.305	0.170	
MH34_S	JUNCTION	0.550	0.734	0	09:07	0.787	1.52	-0.277	
MH35	JUNCTION	0.000	0.106	0	09:07	0	0.305	0.080	
MH36	JUNCTION	0.000	0.107	0	09:09	0	0.305	-0.064	
MH36_S	JUNCTION	0.000	0.415	0	09:09	0	0.732	0.305	
MH37	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH37_S	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH38	JUNCTION	0.000	0.021	0	09:09	0	0.00242	0.886	
MH39	JUNCTION	0.000	0.049	0	09:08	0	0.0214	0.667	
MH4	JUNCTION	0.000	0.483	0	09:09	0	1.53	0.091	
MH4_Main	JUNCTION	0.000	0.154	0	09:38	0	1.75	-0.040	
MH40	JUNCTION	0.000	0.429	0	09:07	0	1.45	0.082	
MH41	JUNCTION	0.000	0.494	0	09:11	0	1.74	0.246	
MH41_S	JUNCTION	0.000	0.456	0	09:07	0	0.765	0.000	
MH42	JUNCTION	0.000	0.135	0	09:53	0	2.25	0.099	
MH43	JUNCTION	0.000	0.135	0	09:53	0	2.25	-0.019	
MH5	JUNCTION	0.000	0.145	0	09:27	0	0.294	6.297	
MH5_Main	JUNCTION	0.000	0.407	0	09:18	0	2.78	2.140	
MH6	JUNCTION	0.000	0.104	0	09:35	0	0.271	-0.869	
MH6_Main	JUNCTION	0.000	0.269	0	09:11	0	2.59	0.206	
MH7	JUNCTION	0.000	0.081	0	09:22	0	0.27	-0.204	
MH7_Main	JUNCTION	0.000	0.269	0	09:11	0	2.58	0.034	
MH8	JUNCTION	0.000	0.493	0	09:09	0	1.8	-0.041	
MH8_Main	JUNCTION	0.000	0.269	0	09:11	0	2.58	0.020	
MH8_S	JUNCTION	0.497	0.711	0	09:07	0.71	1.02	0.296	
MH9	JUNCTION	0.000	0.919	0	09:04	0	2.96	0.002	
MH9__S	JUNCTION	0.000	0.690	0	09:08	0	1.01	-0.511	
MH9_Main	JUNCTION	0.000	0.258	0	09:06	0	2.67	0.189	
MJ_	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ1	JUNCTION	0.151	0.873	0	09:08	0.251	1.94	1.625	
MJ10	JUNCTION	0.018	0.194	0	09:05	0.0295	0.282	-0.082	
MJ100	JUNCTION	2.080	3.236	0	09:05	2.97	5.61	0.140	
MJ101	JUNCTION	0.478	0.486	0	09:05	0.684	0.724	-0.011	
MJ102	JUNCTION	0.409	0.487	0	09:05	0.584	1.14	0.000	
MJ103	JUNCTION	0.508	0.545	0	09:05	0.726	1.37	0.314	
MJ104	JUNCTION	0.096	0.346	0	09:07	0.138	0.794	-0.470	
MJ105	JUNCTION	0.574	1.281	0	09:05	0.821	4.05	23.905	
MJ106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ107	JUNCTION	0.055	0.393	0	09:08	0.0788	0.918	-0.767	
MJ108	JUNCTION	0.457	0.457	0	09:05	0.653	0.653	-1.613	

MJ109	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ110	JUNCTION	0.302	0.302	0	09:05	0.431	0.431	0.560	
MJ111	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ112	JUNCTION	0.404	1.574	0	09:06	0.577	2.82	0.206	
MJ113	JUNCTION	0.157	0.268	0	09:12	0.225	0.846	-0.726	
MJ114	JUNCTION	0.056	0.056	0	09:05	0.0802	0.0802	-1.114	
MJ115	JUNCTION	0.462	0.465	0	09:05	0.66	0.67	0.014	
MJ116	JUNCTION	0.933	1.054	0	09:05	1.33	1.83	0.290	
MJ117	JUNCTION	0.029	0.029	0	09:05	0.0417	0.0417	-8.181	
MJ118	JUNCTION	0.178	2.806	0	09:05	0.254	3.05	20.143	
MJ119	JUNCTION	0.209	2.189	0	09:09	0.299	4.11	4.942	
MJ12	JUNCTION	1.114	1.114	0	09:05	2.03	2.03	-0.147	
MJ120	JUNCTION	0.445	0.671	0	09:05	0.636	1.06	0.000	
MJ121	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ122	JUNCTION	1.298	1.600	0	09:05	1.86	2.82	-0.103	
MJ123	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ124	JUNCTION	0.404	0.970	0	09:05	0.578	1.83	10.141	
MJ125	JUNCTION	0.429	0.429	0	09:05	0.613	0.613	-1.814	
MJ126	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ127	JUNCTION	0.249	0.249	0	09:05	0.355	0.355	-1.489	
MJ128	JUNCTION	0.763	0.806	0	09:05	1.09	1.21	-0.227	
MJ129	JUNCTION	0.857	1.777	0	09:05	1.23	3.71	-1.387	
MJ13	JUNCTION	0.787	1.073	0	09:05	1.13	1.74	-0.010	
MJ130	JUNCTION	1.152	1.152	0	09:05	1.65	1.65	-2.223	
MJ131	JUNCTION	0.312	0.318	0	09:05	0.447	0.462	-0.168	
MJ132	JUNCTION	0.046	0.634	0	09:05	0.0658	1.96	-1.491	
MJ133	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ134	JUNCTION	1.364	2.694	0	09:08	1.95	6.15	1.363	
MJ135	JUNCTION	1.050	1.164	0	09:05	1.5	1.66	-0.266	
MJ136	JUNCTION	0.068	0.227	0	09:05	0.0967	0.309	-1.825	
MJ137	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ138	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ139	JUNCTION	0.457	0.457	0	09:05	0.653	0.653	0.014	
MJ14	JUNCTION	0.074	0.152	0	09:06	0.122	0.267	0.238	
MJ140	JUNCTION	0.000	0.019	0	09:07	0	0.0122	12.856	
MJ142	JUNCTION	0.000	0.409	0	09:10	0	0.414	1.192	
MJ143	JUNCTION	0.240	0.476	0	09:07	0.343	0.455	0.123	
MJ144	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ145	JUNCTION	0.405	0.405	0	09:05	0.579	0.579	0.186	
MJ146	JUNCTION	0.594	1.364	0	09:04	0.85	2.46	0.178	

MJ147	JUNCTION	0.387	2.942	0	09:08	0.553	6.13	-1.101	
MJ148	JUNCTION	1.241	3.170	0	09:07	1.77	6.91	0.128	
MJ149	JUNCTION	0.000	0.408	0	09:05	0	0.0676	0.134	
MJ15	JUNCTION	0.666	0.666	0	09:05	0.953	0.953	-0.287	
MJ150	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ151	JUNCTION	0.195	0.273	0	09:05	0.278	0.281	-4.508	
MJ152	JUNCTION	3.424	3.639	0	09:05	5.05	5.84	0.110	
MJ153	JUNCTION	0.632	0.661	0	09:05	0.903	1.32	0.280	
MJ154	JUNCTION	1.559	1.847	0	09:05	2.47	3.41	0.006	
MJ155	JUNCTION	0.660	0.660	0	09:05	1.34	1.34	0.199	
MJ156	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ157	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ158	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ16	JUNCTION	0.000	0.021	0	09:07	0	0.012	20.657	
MJ17	JUNCTION	0.175	0.175	0	09:05	0.251	0.251	-3.720	
MJ18	JUNCTION	0.041	0.277	0	09:07	0.0592	0.687	0.372	
MJ19	JUNCTION	0.398	0.502	0	09:05	0.569	0.784	6.066	
MJ2	JUNCTION	0.270	0.335	0	09:05	0.447	0.584	0.303	
MJ20	JUNCTION	0.059	0.086	0	09:05	0.0971	0.147	0.417	
MJ21	JUNCTION	0.090	0.453	0	09:06	0.128	0.756	0.321	
MJ22	JUNCTION	3.814	4.694	0	09:05	5.45	7.81	8.794	
MJ23	JUNCTION	0.085	0.085	0	09:05	0.147	0.147	0.031	
MJ24	JUNCTION	0.630	1.762	0	09:07	0.901	3.37	1.658	
MJ25	JUNCTION	0.359	0.383	0	09:05	0.589	0.659	0.202	
MJ26	JUNCTION	0.468	0.668	0	09:05	0.694	1.53	0.604	
MJ27	JUNCTION	0.343	1.954	0	09:18	0.592	7.14	0.073	
MJ28	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ29	JUNCTION	0.191	0.297	0	09:05	0.273	0.753	0.000	
MJ3	JUNCTION	0.670	2.102	0	09:06	0.958	5.5	0.241	
MJ30	JUNCTION	0.231	0.341	0	09:05	0.383	0.649	0.303	
MJ31	JUNCTION	0.273	0.528	0	09:07	0.453	1.1	-0.330	
MJ32	JUNCTION	0.174	0.232	0	09:05	0.288	0.435	0.399	
MJ33	JUNCTION	0.000	0.150	0	09:09	0	0.395	-0.642	
MJ34	JUNCTION	0.308	0.332	0	09:05	0.44	0.481	-0.016	
MJ35	JUNCTION	0.215	1.807	0	09:18	0.372	6.56	0.189	
MJ36	JUNCTION	2.070	2.272	0	09:05	2.96	3.36	-0.909	
MJ37	JUNCTION	0.143	0.143	0	09:05	0.248	0.248	-2.204	
MJ38	JUNCTION	0.197	0.215	0	09:05	0.282	0.401	0.000	
MJ39	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ40	JUNCTION	0.000	0.044	0	09:07	0	0.0414	7.610	

MJ41	JUNCTION	0.000	0.063	0	09:06	0	0.0291	9.740	
MJ42	JUNCTION	0.206	1.696	0	09:18	0.294	6.11	0.124	
MJ43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ44	JUNCTION	0.061	0.061	0	09:05	0.102	0.102	2.511	
MJ45	JUNCTION	0.098	0.098	0	09:05	0.141	0.141	-0.406	
MJ46	JUNCTION	0.050	0.057	0	09:05	0.0715	0.0855	-2.611	
MJ47	JUNCTION	0.182	0.182	0	09:05	0.26	0.262	0.000	
MJ48	JUNCTION	0.319	1.625	0	09:07	0.55	3.32	1.810	
MJ49	JUNCTION	0.000	0.089	0	09:07	0	0.203	-0.282	
MJ5	JUNCTION	0.182	0.182	0	09:05	0.253	0.253	0.031	
MJ50	JUNCTION	0.000	0.066	0	09:07	0	0.138	78.112	
MJ51	JUNCTION	0.074	0.074	0	09:05	0.106	0.106	0.108	
MJ52	JUNCTION	0.273	0.273	0	09:05	0.391	0.648	32.756	
MJ53	JUNCTION	0.025	0.025	0	09:05	0.0353	0.0353	-4.849	
MJ54	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ55	JUNCTION	0.364	0.902	0	09:07	0.628	1.71	-0.036	
MJ56	JUNCTION	0.076	0.076	0	09:05	0.109	0.11	-1.045	
MJ57	JUNCTION	0.123	0.294	0	09:06	0.176	0.608	0.127	
MJ58	JUNCTION	0.075	0.310	0	09:05	0.107	0.539	0.000	
MJ59	JUNCTION	0.313	0.313	0	09:05	0.447	0.447	0.000	
MJ60	JUNCTION	0.026	0.396	0	09:07	0.0366	0.708	0.146	
MJ61	JUNCTION	0.262	0.414	0	09:05	0.375	0.693	0.000	
MJ62	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ63	JUNCTION	0.082	1.658	0	09:18	0.117	5.85	0.212	
MJ64	JUNCTION	0.180	0.272	0	09:05	0.258	0.486	6.451	
MJ65	JUNCTION	0.164	0.234	0	09:05	0.235	0.379	-0.817	
MJ66	JUNCTION	0.018	0.158	0	09:06	0.0313	0.265	0.288	
MJ67	JUNCTION	1.464	1.464	0	09:05	2.09	2.09	1.181	
MJ68	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ69	JUNCTION	0.278	0.412	0	09:05	0.397	0.673	0.322	
MJ7	JUNCTION	1.421	1.615	0	09:05	1.98	2.37	0.255	
MJ70	JUNCTION	0.579	0.764	0	09:05	0.828	1.5	0.639	
MJ71	JUNCTION	0.463	0.463	0	09:05	0.799	0.799	-1.543	
MJ72	JUNCTION	0.260	1.526	0	09:17	0.371	5.27	0.185	
MJ73	JUNCTION	0.072	0.250	0	09:06	0.103	0.409	-1.026	
MJ74	JUNCTION	0.467	0.862	0	09:15	0.668	1.97	-0.329	
MJ75	JUNCTION	0.029	0.115	0	09:08	0.041	0.311	0.633	
MJ76	JUNCTION	0.093	0.244	0	09:05	0.133	0.385	0.488	
MJ77	JUNCTION	0.038	0.178	0	09:05	0.0539	0.271	0.239	
MJ78	JUNCTION	0.018	0.235	0	09:06	0.0264	0.596	-1.769	
MJ79	JUNCTION	0.038	0.777	0	09:19	0.0548	1.97	0.012	

MJ8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ80	JUNCTION	0.180	0.286	0	09:05	0.258	0.437	-0.208	
MJ81	JUNCTION	0.196	0.236	0	09:05	0.28	0.57	0.088	
MJ82	JUNCTION	0.213	0.780	0	09:18	0.304	1.99	0.218	
MJ83	JUNCTION	0.072	0.867	0	09:10	0.103	2.95	0.569	
MJ84	JUNCTION	0.360	0.360	0	09:05	0.514	0.514	-0.643	
MJ85	JUNCTION	0.000	1.013	0	09:15	0	1.81	0.112	
MJ86	JUNCTION	0.255	0.255	0	09:05	0.364	0.364	0.190	
MJ87	JUNCTION	0.448	0.490	0	09:05	0.64	0.947	0.000	
MJ88	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ89	JUNCTION	0.293	1.028	0	09:08	0.419	3.37	0.087	
MJ9	JUNCTION	0.393	0.393	0	09:05	0.678	0.678	0.261	
MJ90	JUNCTION	0.429	0.512	0	09:05	0.613	0.97	0.000	
MJ91	JUNCTION	0.061	0.150	0	09:05	0.0867	0.25	-2.638	
MJ92	JUNCTION	0.812	1.335	0	09:06	1.16	3.23	0.262	
MJ93	JUNCTION	0.513	1.080	0	09:14	0.734	2.18	0.127	
MJ94	JUNCTION	0.000	0.046	0	09:05	0	0.0689	0.000	
MJ95	JUNCTION	1.182	1.182	0	09:05	1.69	1.69	0.971	
MJ96	JUNCTION	0.000	0.242	0	09:25	0	0.997	1.691	
MJ97	JUNCTION	0.035	0.525	0	09:06	0.0503	0.585	0.000	
MJ98	JUNCTION	0.000	0.904	0	09:07	0	1.98	0.341	
MJ99	JUNCTION	0.056	0.589	0	09:08	0.0802	1.37	-0.025	
OGS-	JUNCTION	0.000	0.168	0	08:50	0	1.9	0.003	
RICE_POND_OUTLET	JUNCTION	0.000	0.293	0	10:29	0	6.88	0.021	
OF10-	OUTFALL	1.124	1.124	0	09:05	1.61	1.61	0.000	
OF11-M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF12-	OUTFALL	0.000	0.724	0	09:09	0	0.819	0.000	
OF13-	OUTFALL	0.000	0.168	0	08:50	0	1.9	0.000	
OF14-	OUTFALL	0.000	0.293	0	10:30	0	6.87	0.000	
OF15-	OUTFALL	3.225	3.225	0	09:05	4.61	4.61	0.000	
OF16-	OUTFALL	0.000	0.262	0	09:09	0	1.34	0.000	
OF17-	OUTFALL	0.243	1.547	0	09:05	0.347	5.19	0.000	
OF18-M	OUTFALL	0.123	0.123	0	09:05	0.175	0.175	0.000	
OF19-	OUTFALL	0.375	0.507	0	09:05	0.536	1.35	0.000	
OF1-M	OUTFALL	0.000	0.897	0	09:19	0	3.26	0.000	
OF20-	OUTFALL	0.000	0.606	0	09:07	0	7.2	0.000	
OF21-	OUTFALL	1.121	1.121	0	09:05	1.6	1.6	0.000	
OF22_M	OUTFALL	0.000	0.022	0	09:09	0	0.01	0.000	
OF23-	OUTFALL	2.287	2.287	0	09:05	3.27	3.27	0.000	
OF24-	OUTFALL	3.587	4.124	0	09:05	8.46	12	0.000	
OF25-	OUTFALL	0.000	0.187	0	09:08	0	2.33	0.000	

OF26-M	OUTFALL	0.368	2.331	0	09:10	0.527	4.4	0.000	
OF27-1	OUTFALL	0.551	0.553	0	09:05	0.787	3.04	0.000	
OF27-M	OUTFALL	1.230	1.265	0	09:05	1.76	2.28	0.000	
OF28-	OUTFALL	1.867	1.867	0	09:05	2.62	2.62	0.000	
OF29-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF2-M	OUTFALL	0.000	1.953	0	09:19	0	7.14	0.000	
OF2-M-	OUTFALL	0.000	0.363	0	09:06	0	0.677	0.000	
OF3-	OUTFALL	0.220	0.489	0	09:06	0.38	3.34	0.000	
OF30-M	OUTFALL	0.223	0.750	0	09:06	0.319	1.56	0.000	
OF31-M	OUTFALL	0.239	0.748	0	09:07	0.342	1.86	0.000	
OF32-M	OUTFALL	0.000	4.056	0	09:07	0	7.18	0.000	
OF33-	OUTFALL	0.000	0.580	0	09:09	0	4.4	0.000	
OF34-	OUTFALL	4.481	4.481	0	09:05	7.69	7.69	0.000	
OF35-	OUTFALL	0.835	0.835	0	09:10	2.22	2.22	0.000	
OF36-	OUTFALL	1.201	1.201	0	09:05	3.36	3.36	0.000	
OF37-	OUTFALL	3.455	3.455	0	09:15	11	11	0.000	
OF38-	OUTFALL	1.974	1.974	0	09:10	5.25	5.25	0.000	
OF39-	OUTFALL	2.855	2.855	0	09:05	4.67	4.67	0.000	
OF3-M	OUTFALL	0.000	0.899	0	09:06	0	1.42	0.000	
OF40-	OUTFALL	2.345	2.345	0	09:05	3.83	3.83	0.000	
OF41-	OUTFALL	1.955	1.955	0	09:05	3.19	3.19	0.000	
OF42-	OUTFALL	5.020	5.020	0	09:05	8.62	8.62	0.000	
OF43-	OUTFALL	7.776	7.776	0	09:05	13.3	13.3	0.000	
OF44-	OUTFALL	6.679	6.679	0	09:05	11.5	11.5	0.000	
OF45-	OUTFALL	6.559	6.559	0	09:05	11.3	11.3	0.000	
OF46-	OUTFALL	9.841	9.841	0	09:05	16.9	16.9	0.000	
OF47-	OUTFALL	10.726	10.726	0	09:05	18.4	18.4	0.000	
OF48-	OUTFALL	5.896	5.896	0	09:15	18.8	18.8	0.000	
OF49-	OUTFALL	5.102	5.102	0	09:05	8.76	8.76	0.000	
OF4-M	OUTFALL	0.394	0.805	0	09:05	0.563	1.3	0.000	
OF50	OUTFALL	3.766	3.766	0	09:05	6.46	6.46	0.000	
OF51	OUTFALL	3.562	3.562	0	09:05	5.82	5.82	0.000	
OF52	OUTFALL	4.373	4.373	0	09:05	7.15	7.15	0.000	
OF53	OUTFALL	8.003	8.003	0	09:05	13.7	13.7	0.000	
OF54	OUTFALL	6.674	6.674	0	09:05	11.5	11.5	0.000	
OF55	OUTFALL	2.195	2.195	0	09:05	3.59	3.59	0.000	
OF56	OUTFALL	6.120	6.120	0	09:05	10	10	0.000	
OF57	OUTFALL	2.305	2.305	0	09:05	3.77	3.77	0.000	
OF58	OUTFALL	8.573	8.573	0	09:05	22	22	0.000	
OF59	OUTFALL	2.919	2.919	0	09:05	4.05	4.05	0.000	
OF5-M	OUTFALL	0.928	0.970	0	09:05	1.33	1.64	0.000	

OF6-	OUTFALL	0.321	0.414	0	09:05	0.459	1.17	0.000	
OF60	OUTFALL	7.577	7.577	0	09:05	16.6	16.6	0.000	
OF61	OUTFALL	1.957	1.957	0	09:15	6.25	6.25	0.000	
OF62	OUTFALL	0.139	0.139	0	09:05	0.282	0.282	0.000	
OF7-M	OUTFALL	0.000	1.877	0	09:08	0	4.77	0.000	
OF8-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF9-M	OUTFALL	0.415	3.344	0	09:06	0.593	6.2	0.000	
Gill_RD_Pond	STORAGE	0.315	1.127	0	09:05	0.451	2.84	3.343	
Rice_Pond	STORAGE	0.423	2.877	0	09:12	0.631	10.5	0.004	

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
CB15	JUNCTION	0.38	1.100	0.000
CB16	JUNCTION	0.25	1.253	0.027
CB17	JUNCTION	0.36	2.485	0.000
CB18	JUNCTION	0.17	1.380	0.000
CB19	JUNCTION	0.23	1.200	0.000
CB20	JUNCTION	0.27	1.420	0.000
CB21	JUNCTION	0.29	1.256	0.934
CB30_1	JUNCTION	1.04	1.270	0.000
CB31	JUNCTION	1.12	0.830	0.000
CB32	JUNCTION	1.23	0.920	0.000
CB33	JUNCTION	1.38	1.090	0.000
CB41	JUNCTION	0.76	0.550	0.000
CB42	JUNCTION	1.41	0.780	0.000
CB-58	JUNCTION	1.02	1.500	0.000
CBMH_1	JUNCTION	2.12	1.166	0.000
CBMH_40	JUNCTION	0.31	1.951	0.000
CBMH_41	JUNCTION	1.61	1.653	0.000
CBMH_42	JUNCTION	0.27	1.404	0.000
CBMH_44	JUNCTION	2.53	1.573	0.000
CBMH_46	JUNCTION	1.84	0.641	0.564

CBMH1	JUNCTION	0.26	1.150	0.000
CBMH7	JUNCTION	0.24	1.570	0.000
DICBMH42	JUNCTION	14.95	0.256	1.369
J101	JUNCTION	2.42	1.000	0.000
J102	JUNCTION	1.50	1.286	0.000
J110	JUNCTION	2.46	1.145	0.000
J113	JUNCTION	2.40	1.000	0.000
J125	JUNCTION	0.64	0.513	2.482
J127	JUNCTION	0.29	1.957	0.000
J128	JUNCTION	0.33	1.810	0.000
J34	JUNCTION	0.02	1.206	0.264
J49	JUNCTION	0.35	0.960	0.860
J91	JUNCTION	20.76	1.133	2.934
J93	JUNCTION	0.15	0.480	0.000
J95	JUNCTION	0.09	0.390	0.000
J98	JUNCTION	2.15	0.590	0.000
MH_11	JUNCTION	0.37	2.875	0.000
MH_14	JUNCTION	0.50	2.459	0.000
MH_15	JUNCTION	0.44	2.514	0.000
MH_16	JUNCTION	0.52	2.434	0.000
MH_17	JUNCTION	2.43	2.116	0.000
MH_27	JUNCTION	0.51	1.943	0.000
MH_29	JUNCTION	0.34	1.494	0.000
MH_30	JUNCTION	0.43	1.535	0.000
MH_34	JUNCTION	0.57	2.494	0.000
MH_35	JUNCTION	0.64	2.436	0.000
MH_36	JUNCTION	0.68	2.359	0.000
MH_37	JUNCTION	0.78	2.032	0.096
MH_38	JUNCTION	2.73	1.867	0.330
MH_39	JUNCTION	3.70	1.284	0.681
MH_43	JUNCTION	0.37	1.304	0.000
MH_45	JUNCTION	2.58	1.311	0.000
MH_47	JUNCTION	2.65	0.831	0.784
MH_56	JUNCTION	0.71	0.530	0.000
MH_64	JUNCTION	2.44	0.165	1.563
MH_65	JUNCTION	4.29	0.488	1.452
MH_66	JUNCTION	4.73	0.570	1.366
MH_67	JUNCTION	4.99	0.632	1.187
MH_68	JUNCTION	6.19	0.769	0.498
MH1	JUNCTION	0.49	2.590	0.000
MH1_Main	JUNCTION	1.05	1.470	0.000

MH10	JUNCTION	0.19	1.472	0.078
MH10_Main	JUNCTION	0.35	1.808	0.000
MH11	JUNCTION	0.34	1.499	0.691
MH11__S	JUNCTION	0.36	0.612	1.088
MH12	JUNCTION	0.19	1.021	0.549
MH13_Main_	JUNCTION	0.17	0.948	0.319
MH14	JUNCTION	0.37	0.420	3.990
MH14_Main	JUNCTION	0.44	1.217	0.314
MH15	JUNCTION	0.42	0.555	4.365
MH15_Main	JUNCTION	0.56	1.042	0.908
MH2	JUNCTION	0.37	2.350	0.000
MH2_Main	JUNCTION	1.15	1.107	0.000
MH2_S	JUNCTION	0.09	0.188	1.512
MH21	JUNCTION	1.18	1.680	0.000
MH22	JUNCTION	1.19	1.510	0.000
MH23	JUNCTION	1.28	1.570	0.000
MH24	JUNCTION	1.41	1.655	0.000
MH25	JUNCTION	0.32	1.489	0.661
MH25-1	JUNCTION	0.62	1.482	0.608
MH3	JUNCTION	0.37	2.570	0.000
MH3_Main	JUNCTION	0.15	0.142	1.148
MH30	JUNCTION	0.16	2.265	0.029
MH31	JUNCTION	0.22	1.288	1.256
MH32	JUNCTION	0.25	1.144	1.136
MH33	JUNCTION	0.26	1.027	1.309
MH36	JUNCTION	0.10	0.112	2.514
MH4	JUNCTION	0.26	1.770	0.000
MH4_Main	JUNCTION	0.56	1.520	0.000
MH40	JUNCTION	0.24	0.687	1.976
MH41	JUNCTION	0.19	0.377	2.275
MH5	JUNCTION	0.58	2.250	0.000
MH5_Main	JUNCTION	1.85	1.580	0.000
MH6	JUNCTION	0.39	1.765	0.535
MH6_Main	JUNCTION	2.06	1.834	0.746
MH7	JUNCTION	0.65	1.580	0.000
MH8	JUNCTION	0.29	1.596	0.314
MH8_Main	JUNCTION	1.78	1.239	0.000
MH9	JUNCTION	0.25	1.320	0.260
MH9_Main	JUNCTION	0.38	1.479	0.000
MJ105	JUNCTION	14.93	1.587	0.000
MJ146	JUNCTION	1.21	1.700	0.000

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CMS	Time of Max Occurrence days	hr:min	Total Flood Volume 10^6 ltr	Maximum Ponded Depth Meters
CB15	0.15	0.193	0	09:04	0.058	0.000
CB17	0.01	0.022	0	09:04	0.000	0.000
CB18	0.01	0.044	0	09:04	0.000	0.000
CB19	0.10	0.126	0	09:05	0.024	0.000
CB20	0.01	0.025	0	09:04	0.000	0.000
CB30_1	0.01	0.023	0	09:08	0.000	0.000
CB31	0.98	0.077	0	09:07	0.132	0.000
CB32	0.53	0.040	0	09:15	0.061	0.000
CB33	0.44	0.087	0	09:15	0.077	0.000
CB41	0.54	0.096	0	09:06	0.122	0.000
CB42	0.53	0.042	0	09:14	0.078	0.000
CB-58	0.01	0.026	0	09:03	0.000	0.000
CBMH_1	1.28	2.871	0	09:05	2.820	0.000
CBMH_40	0.01	0.030	0	09:05	0.000	0.000
CBMH_41	0.01	0.056	0	09:04	0.000	0.000
CBMH_42	0.01	0.014	0	09:06	0.000	0.000
CBMH_44	0.01	0.044	0	09:04	0.000	0.000
CBMH1	0.01	0.055	0	09:04	0.000	0.000
CBMH7	0.01	0.105	0	09:04	0.000	0.000
J101	1.97	0.391	0	09:06	1.219	0.000
J102	1.07	0.195	0	09:05	0.528	0.000
J110	0.01	0.008	0	08:53	0.000	0.000
J113	0.66	0.061	0	09:13	0.071	0.000
J127	0.01	0.014	0	09:07	0.000	0.000
J128	0.01	0.067	0	09:06	0.002	0.000
J93	0.01	0.006	0	09:08	0.000	0.000
J95	0.01	0.004	0	09:09	0.000	0.000
J98	1.05	0.068	0	09:10	0.124	0.000

MH_11	0.01	0.096	0	09:04	0.000	0.000
MH_14	0.26	0.178	0	09:05	0.088	0.000
MH_15	0.01	0.016	0	09:04	0.000	0.000
MH_16	0.01	0.022	0	09:04	0.000	0.000
MH_17	0.01	0.254	0	09:03	0.000	0.000
MH_27	0.27	0.363	0	09:06	0.201	0.000
MH_29	0.01	0.052	0	09:03	0.000	0.000
MH_30	0.01	0.137	0	09:03	0.000	0.000
MH_34	0.21	0.124	0	09:05	0.053	0.000
MH_35	0.01	0.122	0	09:02	0.000	0.000
MH_36	0.01	0.123	0	09:02	0.000	0.000
MH_43	0.01	0.003	0	09:06	0.000	0.000
MH_45	0.01	0.058	0	09:04	0.000	0.000
MH_56	0.20	0.104	0	09:12	0.020	0.000
MH1	0.01	0.011	0	09:03	0.000	0.000
MH1_Main	0.01	0.063	0	09:08	0.000	0.000
MH10_Main	0.01	0.045	0	09:09	0.000	0.000
MH2	0.14	0.087	0	09:03	0.022	0.000
MH2_Main	0.01	0.235	0	10:11	0.001	0.000
MH21	0.58	0.247	0	09:08	0.367	0.000
MH22	0.01	0.039	0	09:03	0.000	0.000
MH23	0.01	0.056	0	09:02	0.000	0.000
MH24	0.01	0.007	0	09:08	0.000	0.000
MH3	0.01	0.072	0	09:03	0.000	0.000
MH4	0.01	0.200	0	09:04	0.000	0.000
MH4_Main	0.01	0.084	0	09:05	0.000	0.000
MH5	0.03	0.118	0	09:08	0.006	0.000
MH5_Main	0.74	0.181	0	09:39	0.173	0.000
MH7	0.01	0.010	0	09:20	0.000	0.000
MH8_Main	0.42	0.078	0	09:11	0.055	0.000
MH9_Main	0.01	0.037	0	09:07	0.000	0.000
MJ105	0.01	1.064	0	09:04	0.001	0.000
MJ146	0.01	1.047	0	09:04	0.003	0.000

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Storage Volume Summary
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	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum

Storage Unit	Volume 1000 m3	Pcnt Full	Pcnt Loss	Pcnt Loss	Volume 1000 m3	Pcnt Full	Occurrence days	Occurrence hr:min	Outflow CMS
Gill_RD_Pond	0.651	22	0	0	1.437	49	0	09:52	0.135
Rice_Pond	4.376	31	0	0	7.480	54	0	10:29	0.293

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Outfall Loading Summary
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Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
OF10-	99.94	0.040	1.124	1.607
OF11-M	0.00	0.000	0.000	0.000
OF12-	95.68	0.027	0.724	0.819
OF13-	99.79	0.042	0.168	1.904
OF14-	99.98	0.121	0.293	6.873
OF15-	99.98	0.116	3.225	4.610
OF16-	99.78	0.033	0.262	1.338
OF17-	99.83	0.139	1.547	5.191
OF18-M	99.66	0.004	0.123	0.175
OF19-	99.87	0.031	0.507	1.349
OF1-M	94.47	0.101	0.897	3.262
OF20-	94.64	0.166	0.606	7.203
OF21-	99.94	0.040	1.121	1.602
OF22_M	3.51	0.010	0.022	0.010
OF23-	99.97	0.082	2.287	3.270
OF24-	99.98	0.355	4.124	12.035
OF25-	97.76	0.054	0.187	2.325
OF26-M	99.86	0.133	2.331	4.403
OF27-1	99.89	0.066	0.553	3.037
OF27-M	99.95	0.059	1.265	2.280
OF28-	99.97	0.066	1.867	2.621
OF29-	0.00	0.000	0.000	0.000
OF2-M	97.95	0.212	1.953	7.138
OF2-M-	97.69	0.020	0.363	0.677
OF3-	99.83	0.075	0.489	3.344

OF30-M	99.79	0.042	0.750	1.561
OF31-M	99.81	0.052	0.748	1.860
OF32-M	80.48	0.257	4.056	7.183
OF33-	99.68	0.110	0.580	4.404
OF34-	99.98	0.196	4.481	7.691
OF35-	22.07	0.332	0.835	2.221
OF36-	99.97	0.100	1.201	3.360
OF37-	24.27	1.473	3.455	11.030
OF38-	22.08	0.784	1.974	5.250
OF39-	99.97	0.119	2.855	4.666
OF3-M	95.57	0.043	0.899	1.419
OF40-	99.97	0.098	2.345	3.833
OF41-	99.96	0.082	1.955	3.194
OF42-	99.98	0.219	5.020	8.616
OF43-	99.99	0.339	7.776	13.346
OF44-	99.98	0.292	6.679	11.463
OF45-	99.98	0.286	6.559	11.257
OF46-	99.99	0.429	9.841	16.890
OF47-	99.99	0.468	10.726	18.407
OF48-	24.39	2.502	5.896	18.823
OF49-	99.98	0.223	5.102	8.756
OF4-M	99.86	0.035	0.805	1.302
OF50	99.97	0.164	3.766	6.462
OF51	99.98	0.149	3.562	5.820
OF52	99.98	0.183	4.373	7.146
OF53	99.99	0.349	8.003	13.734
OF54	99.98	0.291	6.674	11.455
OF55	99.97	0.092	2.195	3.587
OF56	99.99	0.255	6.120	10.001
OF57	99.97	0.096	2.305	3.767
OF58	99.99	0.643	8.573	22.009
OF59	99.99	0.104	2.919	4.054
OF5-M	99.94	0.043	0.970	1.637
OF6-	99.85	0.028	0.414	1.173
OF60	99.99	0.463	7.577	16.581
OF61	24.04	0.842	1.957	6.247
OF62	95.82	0.009	0.139	0.282
OF7-M	97.75	0.142	1.877	4.774
OF8-	0.00	0.000	0.000	0.000
OF9-M	99.87	0.169	3.344	6.196

System 87.15 14.498 165.628 368.531

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Link Flow Summary
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Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days	hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
C_dummy	CONDUIT	0.897	0	09:19	9.51	0.11	0.43
C1	CONDUIT	0.580	0	09:09	2.37	0.45	0.47
C100	CONDUIT	1.691	0	09:05	3.16	2.42	1.00
C106	CONDUIT	1.056	0	09:03	2.95	1.74	1.00
C108	CONDUIT	0.038	0	09:05	0.68	0.64	1.00
C110	CONDUIT	0.086	0	09:04	1.41	1.14	1.00
C111	CONDUIT	0.076	0	09:04	1.13	0.85	1.00
C113	CONDUIT	0.049	0	09:04	1.01	1.36	1.00
C114	CONDUIT	0.037	0	09:04	1.11	0.77	1.00
C115	CONDUIT	0.010	0	09:06	0.40	0.28	0.81
C116	CONDUIT	0.165	0	09:04	1.50	1.29	1.00
C118	CONDUIT	0.049	0	09:04	0.45	0.28	1.00
C119_1	CONDUIT	0.263	0	09:04	0.50	0.21	1.00
C119_2	CONDUIT	1.682	0	09:09	3.15	2.17	1.00
C123	CONDUIT	0.247	0	09:15	1.55	1.46	1.00
C124	CONDUIT	0.247	0	09:14	1.55	2.04	1.00
C125	CONDUIT	1.911	0	09:09	3.09	1.28	1.00
C126	CONDUIT	1.920	0	09:15	3.14	1.78	1.00
C127	CONDUIT	0.293	0	10:30	2.04	0.72	0.63
C128	CONDUIT	0.293	0	10:30	1.94	0.77	0.66
C129	CONDUIT	0.293	0	10:30	1.96	0.76	0.65
C130	CONDUIT	0.086	0	09:15	0.97	0.52	1.00
C145	CONDUIT	0.100	0	09:18	1.48	1.55	0.91
C147	CONDUIT	0.098	0	09:19	1.46	1.22	0.95
C150	CONDUIT	0.097	0	09:18	1.44	1.39	1.00
C151	CONDUIT	0.009	0	09:19	0.23	0.07	0.84
C156	CONDUIT	0.000	0	00:00	0.00	0.00	0.34
C159	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C160	CONDUIT	0.000	0	00:00	0.00	0.00	0.00

C161	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C164	CONDUIT	0.262	0	09:09	4.11	0.37	0.42
C165	CONDUIT	0.000	0	00:00	0.00	0.00	0.25
C167	CONDUIT	0.404	0	09:06	1.87	1.69	1.00
C185	CONDUIT	0.179	0	09:06	1.05	0.96	1.00
C186	CONDUIT	0.164	0	09:17	0.86	0.85	1.00
C187	CONDUIT	0.281	0	09:09	1.30	1.30	1.00
C188	CONDUIT	0.278	0	09:08	1.28	1.29	1.00
C189	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C190	CONDUIT	0.000	0	00:00	0.00	0.00	0.27
C193	CONDUIT	0.021	0	09:09	0.42	0.20	0.77
C194	CONDUIT	0.047	0	09:08	0.53	0.43	1.00
C2	CONDUIT	1.056	0	09:03	2.95	2.12	1.00
C200-	CONDUIT	0.493	0	09:09	1.74	1.03	1.00
C205	CONDUIT	0.106	0	09:07	1.20	0.68	0.91
C206	CONDUIT	0.107	0	09:09	1.12	0.78	1.00
C207	CONDUIT	0.107	0	09:09	0.81	0.72	1.00
C211	CONDUIT	0.135	0	09:53	0.37	0.03	0.64
C212	CONDUIT	0.135	0	09:53	1.04	0.21	0.29
C213	CONDUIT	0.135	0	09:53	1.08	0.22	0.28
C228	CONDUIT	0.083	0	09:11	1.18	0.71	1.00
C229	CONDUIT	0.000	0	00:00	0.00	0.00	0.06
C230	CONDUIT	0.093	0	09:08	1.37	0.71	1.00
C231	CONDUIT	0.090	0	10:11	1.27	1.46	1.00
C232	CONDUIT	0.085	0	09:07	1.21	0.89	1.00
C233	CONDUIT	0.091	0	09:15	1.29	1.25	1.00
C234	CONDUIT	0.000	0	00:00	0.00	0.00	0.03
C235	CONDUIT	0.012	0	09:13	0.30	0.09	0.69
C239	CONDUIT	0.105	0	09:29	1.49	0.95	1.00
C240	CONDUIT	0.098	0	09:06	1.40	0.60	1.00
C244	CONDUIT	0.034	0	09:06	0.50	0.24	1.00
C245	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C246	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C248	CONDUIT	1.313	0	09:05	2.97	1.86	1.00
C250	CONDUIT	0.000	0	00:00	0.00	0.00	0.50
C251	CONDUIT	0.041	0	09:05	1.32	0.42	0.45
C252	CONDUIT	0.115	0	09:02	1.63	0.99	1.00
C253	CONDUIT	0.283	0	09:02	4.05	3.12	1.00
C254	CONDUIT	0.276	0	09:03	4.18	1.06	1.00
C255	CONDUIT	0.055	0	09:02	1.05	0.18	1.00
C256	CONDUIT	0.185	0	09:04	1.81	0.93	1.00

C257	CONDUIT	0.084	0	09:04	1.22	0.47	1.00
C258	CONDUIT	0.245	0	09:04	3.47	5.48	1.00
C259	CONDUIT	0.052	0	09:04	0.75	0.35	1.00
C26	CONDUIT	0.193	0	09:05	1.22	0.92	1.00
C260	CONDUIT	0.080	0	09:22	1.22	1.25	1.00
C263	CONDUIT	0.118	0	09:04	1.76	1.07	1.00
C269	CONDUIT	0.011	0	09:05	1.33	0.04	0.13
C27	CONDUIT	0.321	0	09:03	2.91	2.01	1.00
C28	CONDUIT	0.463	0	09:05	1.84	0.94	1.00
C281	CONDUIT	0.081	0	09:22	1.15	1.24	1.00
C284	CONDUIT	0.104	0	09:35	1.47	1.83	1.00
C285	CONDUIT	0.060	0	09:04	0.87	1.04	1.00
C288	CONDUIT	0.168	0	09:38	2.39	2.68	0.98
C289	CONDUIT	0.168	0	08:50	1.70	0.67	0.60
C292	CONDUIT	0.168	0	08:50	1.51	0.86	0.66
C293	CONDUIT	0.168	0	08:50	1.83	0.60	0.56
C3	CONDUIT	0.464	0	09:05	1.64	0.91	1.00
C343	CONDUIT	0.154	0	09:40	2.19	4.29	1.00
C344	CONDUIT	0.154	0	09:40	0.97	1.27	1.00
C345	CONDUIT	0.470	0	09:40	2.17	2.25	1.00
C346	CONDUIT	0.624	0	09:09	2.79	1.46	0.74
C347	CONDUIT	0.626	0	09:09	4.74	0.46	0.47
C348	CONDUIT	0.606	0	09:07	3.81	6.01	1.00
C349	CONDUIT	0.314	0	09:04	2.50	0.81	1.00
C350	CONDUIT	0.215	0	09:17	1.71	1.85	1.00
C351	CONDUIT	0.000	0	00:00	0.00	0.00	0.27
C352	CONDUIT	0.105	0	09:09	1.59	0.64	0.58
C353	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C4	CONDUIT	0.092	0	09:17	1.12	0.57	0.99
C437	CONDUIT	0.010	0	09:04	0.85	0.58	1.00
C48	CONDUIT	0.054	0	09:03	1.12	1.18	1.00
C5	CONDUIT	0.445	0	09:05	0.81	0.03	0.59
C50	CONDUIT	0.178	0	09:03	2.52	1.29	1.00
C53	CONDUIT	0.668	0	09:03	2.36	1.20	1.00
C54	CONDUIT	0.347	0	09:03	1.60	1.35	1.00
C6	CONDUIT	0.451	0	09:05	1.35	0.37	0.55
C653	CONDUIT	1.747	0	09:07	3.96	2.49	1.00
C655	CONDUIT	0.454	0	09:04	1.61	1.32	1.00
C656	CONDUIT	0.309	0	09:13	1.23	1.34	1.00
C657	CONDUIT	0.548	0	09:06	2.30	0.70	0.66
C658	CONDUIT	1.313	0	09:05	2.97	1.88	1.00

C660	CONDUIT	0.235	0	09:14	1.60	1.06	1.00
C662	CONDUIT	0.269	0	09:11	2.06	9.07	0.77
C663	CONDUIT	0.153	0	09:38	1.48	0.90	1.00
C664	CONDUIT	0.126	0	10:07	1.79	1.47	1.00
C665	CONDUIT	0.018	0	09:08	0.45	0.07	0.56
C666	CONDUIT	1.326	0	09:06	3.05	1.46	0.96
C667	CONDUIT	0.094	0	09:11	1.04	0.24	0.36
C668	CONDUIT	0.207	0	09:10	6.47	0.03	0.13
C669	CONDUIT	0.207	0	09:10	3.68	0.06	0.16
C670	CONDUIT	0.008	0	09:05	0.11	0.02	0.34
C671	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C672	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C673	CONDUIT	0.084	0	09:07	1.01	0.46	0.94
C674	CONDUIT	0.187	0	09:08	3.82	1.20	1.00
C685	CONDUIT	0.000	0	00:00	0.00	0.00	0.05
C686	CONDUIT	0.049	0	09:07	1.92	0.17	0.28
C687	CONDUIT	0.049	0	09:07	2.51	0.12	0.23
C688	CONDUIT	0.049	0	09:08	1.49	0.10	0.21
C689	CONDUIT	0.318	0	09:07	1.55	0.72	0.56
C690	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C7	CONDUIT	0.393	0	09:06	2.59	0.20	0.25
C700	CONDUIT	0.223	0	09:31	3.15	5.37	1.00
C701	CONDUIT	0.310	0	09:07	2.45	1.37	0.75
C702	CONDUIT	0.299	0	09:12	3.82	0.49	0.49
C703	CONDUIT	0.000	0	00:00	0.00	0.00	0.05
C704	CONDUIT	0.018	0	09:05	0.15	0.06	0.50
C705	CONDUIT	0.095	0	09:09	0.92	0.47	0.39
C707	CONDUIT	0.094	0	09:10	0.95	0.38	0.38
C708	CONDUIT	0.207	0	09:10	1.52	0.48	0.49
C709	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C710	CONDUIT	0.055	0	09:10	1.62	0.65	1.00
C711	CONDUIT	0.055	0	09:10	1.12	0.84	1.00
C712	CONDUIT	0.062	0	11:08	1.26	1.23	1.00
C713	CONDUIT	0.029	0	09:06	0.60	0.63	1.00
C714	CONDUIT	0.154	0	09:40	0.97	1.37	1.00
C715	CONDUIT	0.624	0	09:09	2.21	2.28	1.00
C716	CONDUIT	0.919	0	09:04	3.25	1.77	1.00
C717	CONDUIT	0.483	0	09:09	1.71	1.19	1.00
C718	CONDUIT	0.036	0	09:03	0.51	0.51	1.00
C727	CONDUIT	0.047	0	09:09	1.43	0.10	0.21
C734	CONDUIT	0.317	0	09:06	1.53	0.79	0.56

C735	CONDUIT	0.317	0	09:06	1.45	0.84	0.59
C736	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C737	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C738	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C739	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C740	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C741	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C751	CONDUIT	0.269	0	09:11	2.25	0.44	0.77
C752	CONDUIT	0.198	0	09:37	2.06	1.81	1.00
C753	CONDUIT	0.154	0	09:38	2.18	1.67	1.00
C754	CONDUIT	0.066	0	10:11	1.02	0.71	1.00
C755	CONDUIT	0.083	0	09:11	0.52	0.77	1.00
C756	CONDUIT	0.080	0	09:10	0.71	0.69	1.00
C757	CONDUIT	1.212	0	09:08	2.74	1.69	1.00
C758	CONDUIT	0.724	0	09:09	2.20	1.22	0.86
C759	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C760	CONDUIT	0.002	0	09:18	0.24	0.14	0.55
C762	CONDUIT	0.013	0	09:04	0.21	0.07	0.96
C763	CONDUIT	0.606	0	09:07	4.29	0.77	0.83
C764	CONDUIT	0.624	0	09:09	2.21	2.05	1.00
C765	CONDUIT	0.025	0	09:05	0.51	0.67	1.00
C766	CONDUIT	0.024	0	09:05	0.50	1.38	1.00
C767	CONDUIT	1.313	0	09:05	2.97	1.94	1.00
C77	CONDUIT	0.347	0	09:03	1.60	1.35	1.00
C8	CONDUIT	0.794	0	09:13	3.42	0.10	0.32
C80	CONDUIT	0.347	0	09:03	2.18	1.71	1.00
C94	CONDUIT	0.463	0	09:05	1.78	1.16	1.00
CB72	CONDUIT	0.493	0	09:11	2.33	1.21	0.94
MC_C6	CHANNEL	0.000	0	00:00	0.00	0.00	0.10
MC1	CHANNEL	0.658	0	09:15	0.29	0.03	0.18
MC10	CHANNEL	0.363	0	09:06	0.52	0.00	0.09
MC100	CHANNEL	0.220	0	09:07	0.33	0.01	0.09
MC101	CHANNEL	0.120	0	09:08	0.07	0.00	0.23
MC102	CHANNEL	0.138	0	09:06	0.28	0.00	0.08
MC103	CHANNEL	0.127	0	09:06	0.12	0.00	0.13
MC104	CHANNEL	0.768	0	09:19	0.52	0.01	0.14
MC105	CHANNEL	0.540	0	09:18	0.24	0.02	0.18
MC107	CHANNEL	0.143	0	09:05	0.60	0.00	0.05
MC108	CHANNEL	0.063	0	09:06	0.35	0.00	0.04
MC109	CHANNEL	0.084	0	09:05	0.36	0.00	0.05
MC11	CHANNEL	0.088	0	09:07	0.26	0.00	0.06

MC12	CHANNEL	0.083	0	09:07	0.21	0.00	0.07
MC120	CHANNEL	0.715	0	09:16	0.50	0.04	0.44
MC121	CHANNEL	0.151	0	09:16	0.11	0.00	0.13
MC122	CHANNEL	0.144	0	09:16	0.20	0.00	0.09
MC123	CHANNEL	1.013	0	09:15	1.66	0.05	0.23
MC124	CHANNEL	0.114	0	09:06	0.32	0.00	0.06
MC125	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC126	CHANNEL	0.740	0	09:10	0.36	0.01	0.17
MC128	CHANNEL	0.043	0	09:08	0.03	0.00	0.31
MC129	CHANNEL	0.034	0	09:06	0.15	0.00	0.05
MC13	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC130	CHANNEL	0.082	0	09:08	0.02	0.00	0.34
MC131	CHANNEL	0.555	0	09:08	1.64	0.02	0.16
MC132	CHANNEL	0.405	0	09:08	0.56	0.05	0.34
MC133	CHANNEL	0.235	0	09:08	0.49	0.00	0.07
MC135	CHANNEL	0.046	0	09:05	0.17	0.00	0.06
MC136	CHANNEL	0.866	0	09:07	0.52	0.01	0.15
MC137	CHANNEL	0.242	0	09:25	0.22	0.01	0.12
MC139	CHANNEL	0.317	0	09:09	0.16	0.02	0.17
MC14	CHANNEL	1.005	0	09:06	0.60	0.01	0.15
MC141	CHANNEL	0.438	0	09:06	0.48	0.00	0.11
MC142	CHANNEL	0.188	0	09:06	0.28	0.00	0.10
MC143	CHANNEL	0.283	0	09:09	0.89	0.01	0.15
MC144	CHANNEL	0.305	0	09:09	0.96	0.01	0.16
MC145	CHANNEL	3.011	0	09:07	2.88	0.11	0.34
MC146	CHANNEL	0.421	0	09:06	0.10	0.00	0.39
MC147	CHANNEL	0.210	0	09:10	0.24	0.00	0.13
MC148	CHANNEL	0.422	0	09:05	0.20	0.02	0.59
MC149	CHANNEL	0.000	0	00:00	0.00	0.00	0.31
MC15	CHANNEL	0.143	0	09:08	0.16	0.00	0.11
MC150	CHANNEL	0.257	0	09:13	0.08	0.00	0.23
MC151	CHANNEL	0.056	0	09:09	0.11	0.00	0.08
MC152	CHANNEL	0.061	0	09:05	0.19	0.00	0.06
MC153	CHANNEL	0.122	0	09:06	0.12	0.00	0.20
MC154	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC155	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC156	CHANNEL	0.066	0	09:09	0.07	0.00	0.12
MC157	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC158	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC159	CHANNEL	1.353	0	09:08	0.28	0.02	0.29
MC16	CHANNEL	0.236	0	09:07	0.21	0.00	0.12

MC160	CHANNEL	0.122	0	09:19	0.04	0.00	0.31
MC161	CHANNEL	0.096	0	09:19	0.14	0.00	0.09
MC162	CHANNEL	0.013	0	09:11	0.01	0.00	0.18
MC163	CHANNEL	0.012	0	09:11	0.05	0.00	0.06
MC164	CHANNEL	0.004	0	09:08	0.04	0.00	0.11
MC165	CHANNEL	0.910	0	09:07	0.56	0.11	0.65
MC166	CHANNEL	0.007	0	09:08	0.11	0.00	0.08
MC167	CHANNEL	0.005	0	09:08	0.01	0.00	0.23
MC168	CHANNEL	1.177	0	09:05	0.34	0.21	1.00
MC169	CHANNEL	2.155	0	09:10	1.23	0.01	0.15
MC17	CHANNEL	0.227	0	09:07	0.22	0.00	0.11
MC170	CHANNEL	0.206	0	09:12	0.08	0.00	0.20
MC171	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC172	CHANNEL	1.263	0	09:07	1.46	0.06	0.29
MC173	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC174	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC175	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC176	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC177	CHANNEL	0.794	0	09:12	0.13	0.01	0.35
MC178	CHANNEL	0.383	0	09:06	0.31	0.00	0.21
MC179	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC18	CHANNEL	0.021	0	09:07	0.06	0.00	0.06
MC180	CHANNEL	0.000	0	00:00	0.00	0.00	0.20
MC181	CHANNEL	0.215	0	09:06	0.11	0.00	0.19
MC182_1	CHANNEL	0.456	0	09:07	0.22	0.01	0.17
MC182_2	CHANNEL	0.400	0	09:10	0.52	0.00	0.10
MC182_3	CHANNEL	0.415	0	09:09	0.22	0.01	0.16
MC182_5	CHANNEL	0.625	0	09:08	0.29	0.00	0.18
MC183	CHANNEL	0.592	0	09:05	0.17	0.02	0.40
MC184	CHANNEL	0.978	0	09:06	0.51	0.01	0.24
MC185	CHANNEL	0.119	0	09:05	0.31	0.01	0.26
MC186	CHANNEL	0.166	0	09:06	0.81	0.01	0.13
MC187	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC188	CHANNEL	2.083	0	09:15	0.47	0.02	0.39
MC189	CHANNEL	0.139	0	09:08	0.12	0.01	0.54
MC19	CHANNEL	0.107	0	09:06	0.13	0.00	0.10
MC190	CHANNEL	0.048	0	09:08	0.04	0.01	0.46
MC191	CHANNEL	0.000	0	00:00	0.00	0.00	0.34
MC192	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC193	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC194_1	CHANNEL	0.000	0	00:00	0.00	0.00	0.04

MC194_2	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC195	CHANNEL	0.019	0	09:07	0.05	0.00	0.07
MC196	CHANNEL	0.408	0	09:05	0.12	0.08	0.98
MC197	CHANNEL	0.351	0	09:03	0.20	0.05	0.78
MC198	CHANNEL	0.298	0	09:07	0.28	0.10	0.41
MC199	CHANNEL	0.367	0	09:08	0.57	0.04	0.31
MC2	CHANNEL	0.257	0	09:09	0.20	0.00	0.15
MC20	CHANNEL	0.248	0	09:08	0.27	0.01	0.11
MC200	CHANNEL	0.690	0	09:08	0.85	0.09	0.35
MC201	CHANNEL	0.370	0	09:09	0.28	0.03	0.51
MC202	CHANNEL	0.480	0	09:05	0.21	0.05	0.88
MC203	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC204	CHANNEL	0.000	0	00:00	0.00	0.00	0.14
MC205	CHANNEL	0.022	0	09:09	0.26	0.00	0.02
MC206	CHANNEL	1.010	0	09:09	0.38	0.02	0.27
MC207	CHANNEL	0.826	0	09:04	0.30	0.11	1.00
MC208	CHANNEL	2.718	0	09:09	0.93	2.27	0.70
MC209	CHANNEL	0.000	0	00:00	0.00	0.00	0.14
MC21	CHANNEL	0.450	0	09:06	1.13	0.00	0.07
MC210	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC211	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC212	CHANNEL	2.277	0	09:09	1.03	0.32	0.61
MC213	CHANNEL	0.385	0	09:14	0.23	0.01	0.15
MC214_1	CHANNEL	1.166	0	09:11	0.47	0.04	0.19
MC214_2	CHANNEL	0.333	0	09:13	0.23	0.01	0.14
MC215	CHANNEL	0.436	0	09:10	0.19	0.01	0.18
MC216	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC217	CHANNEL	0.000	0	00:00	0.00	0.00	0.12
MC218	CHANNEL	0.000	0	00:00	0.00	0.00	0.28
MC219	CHANNEL	0.409	0	09:10	0.31	0.00	0.14
MC22	CHANNEL	0.074	0	09:08	0.24	0.00	0.06
MC220	CHANNEL	0.796	0	09:05	0.37	0.07	0.70
MC221	CHANNEL	0.009	0	09:07	0.01	0.00	0.27
MC223	CHANNEL	0.009	0	09:07	0.15	0.00	0.06
MC224	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC225	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC226	CHANNEL	0.777	0	09:20	0.37	0.01	0.17
MC227	CHANNEL	0.794	0	09:13	0.28	0.04	0.21
MC228	CHANNEL	0.231	0	09:10	0.18	0.01	0.13
MC229	CHANNEL	0.225	0	09:30	0.22	0.01	0.11
MC23	CHANNEL	0.376	0	09:08	0.64	0.04	0.22

MC230	CHANNEL	0.838	0	09:09	0.62	0.01	0.13
MC231	CHANNEL	0.884	0	09:15	0.39	0.07	0.62
MC232	CHANNEL	0.262	0	09:09	0.31	0.00	0.10
MC24	CHANNEL	4.056	0	09:07	1.43	0.03	0.20
MC25	CHANNEL	0.080	0	09:06	0.17	0.00	0.08
MC26	CHANNEL	0.026	0	09:06	0.05	0.00	0.08
MC27	CHANNEL	0.597	0	09:09	0.66	0.00	0.11
MC28	CHANNEL	1.953	0	09:19	1.21	0.01	0.15
MC29	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC3	CHANNEL	1.877	0	09:08	0.97	0.02	0.16
MC30	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC31	CHANNEL	0.050	0	09:06	0.06	0.00	0.22
MC32	CHANNEL	0.313	0	09:08	0.32	0.01	0.11
MC33	CHANNEL	0.507	0	09:09	0.43	0.00	0.14
MC34	CHANNEL	0.206	0	09:08	0.48	0.00	0.07
MC35	CHANNEL	0.145	0	09:12	0.10	0.00	0.22
MC36	CHANNEL	0.150	0	09:09	0.18	0.01	0.10
MC37	CHANNEL	0.294	0	09:06	0.71	0.01	0.18
MC38	CHANNEL	1.805	0	09:19	0.92	0.02	0.16
MC39	CHANNEL	1.322	0	09:08	0.32	0.02	0.42
MC4	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC40	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC41	CHANNEL	0.095	0	09:11	0.04	0.00	0.22
MC42	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC43	CHANNEL	0.000	0	00:00	0.00	0.00	0.22
MC44	CHANNEL	0.022	0	09:15	0.04	0.00	0.09
MC45	CHANNEL	0.044	0	09:07	0.09	0.00	0.08
MC46	CHANNEL	0.063	0	09:06	0.09	0.00	0.10
MC47	CHANNEL	1.693	0	09:19	0.78	0.02	0.17
MC48	CHANNEL	0.000	0	00:00	0.00	0.00	0.50
MC49	CHANNEL	0.000	0	00:00	0.00	0.00	0.41
MC5	CHANNEL	0.177	0	09:05	0.34	0.00	0.08
MC50	CHANNEL	0.032	0	09:13	0.06	0.00	0.08
MC51	CHANNEL	0.029	0	09:06	0.07	0.00	0.07
MC52	CHANNEL	0.030	0	09:06	0.19	0.00	0.04
MC53	CHANNEL	0.046	0	09:07	0.08	0.00	0.10
MC54	CHANNEL	0.088	0	09:07	0.15	0.00	0.08
MC55	CHANNEL	0.029	0	09:11	0.01	0.00	0.22
MC56	CHANNEL	0.002	0	09:06	0.02	0.00	0.03
MC57	CHANNEL	0.042	0	09:11	0.06	0.00	0.09
MC58	CHANNEL	0.066	0	09:07	0.07	0.00	0.27

MC59	CHANNEL	0.057	0	09:07	0.13	0.00	0.07
MC6	CHANNEL	0.899	0	09:06	1.44	0.05	0.23
MC62	CHANNEL	0.000	0	00:00	0.00	0.00	0.27
MC64	CHANNEL	0.876	0	09:08	0.35	0.00	0.24
MC65	CHANNEL	0.009	0	09:07	0.02	0.00	0.08
MC66	CHANNEL	0.030	0	09:07	0.15	0.00	0.13
MC67	CHANNEL	0.011	0	09:07	0.01	0.00	0.36
MC68	CHANNEL	0.284	0	09:08	0.26	0.00	0.12
MC69	CHANNEL	0.226	0	09:05	0.10	0.00	0.36
MC7	CHANNEL	1.175	0	09:08	0.43	0.31	0.79
MC70	CHANNEL	0.390	0	09:07	0.55	0.00	0.09
MC71	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC72	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC73	CHANNEL	1.647	0	09:19	0.86	0.01	0.16
MC74	CHANNEL	0.145	0	09:06	0.10	0.00	0.18
MC75	CHANNEL	1.520	0	09:18	0.67	0.03	0.18
MC76	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC77	CHANNEL	0.050	0	09:06	0.12	0.00	0.07
MC78	CHANNEL	0.164	0	09:06	0.09	0.00	0.28
MC79	CHANNEL	0.148	0	09:08	0.27	0.00	0.08
MC8	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC80	CHANNEL	0.772	0	09:09	0.47	0.71	0.55
MC82	CHANNEL	0.000	0	00:00	0.00	0.00	0.20
MC83	CHANNEL	0.000	0	00:00	0.00	0.00	0.20
MC84	CHANNEL	0.376	0	09:07	0.70	0.00	0.08
MC85	CHANNEL	0.085	0	09:07	0.09	0.00	0.11
MC86	CHANNEL	0.576	0	09:07	1.57	0.02	0.16
MC87	CHANNEL	0.420	0	09:06	0.21	0.00	0.23
MC89	CHANNEL	0.130	0	09:08	0.09	0.00	0.14
MC9	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC90	CHANNEL	0.096	0	09:08	0.19	0.00	0.08
MC91	CHANNEL	0.094	0	09:20	0.21	0.00	0.07
MC92	CHANNEL	0.138	0	09:07	0.36	0.00	0.07
MC93	CHANNEL	0.083	0	09:07	0.30	0.00	0.05
MC97	CHANNEL	0.076	0	09:06	0.26	0.00	0.05
MC98	CHANNEL	0.142	0	09:06	0.50	0.00	0.06
MC99	CHANNEL	0.022	0	09:06	0.06	0.00	0.07
MJ-C5	CONDUIT	0.146	0	09:09	0.59	0.71	0.65
MJ-C6	CONDUIT	0.143	0	09:12	0.55	0.02	0.19
MJ-C7	CONDUIT	0.136	0	09:20	0.53	0.13	0.34
MJ-C8	CONDUIT	0.135	0	09:21	1.06	0.04	0.20

OL5	ORIFICE	0.135	0	09:52
OL1	DUMMY	0.293	0	10:29
OL10	DUMMY	0.195	0	09:07
OL11	DUMMY	0.262	0	09:09
OL12	DUMMY	0.229	0	09:15
OL13	DUMMY	0.316	0	09:08
OL14	DUMMY	0.316	0	09:04
OL15	DUMMY	0.316	0	09:02
OL16	DUMMY	0.050	0	09:08
OL17	DUMMY	0.111	0	09:06
OL18	DUMMY	0.145	0	09:27
OL19	DUMMY	0.202	0	09:08
OL2	DUMMY	0.124	0	09:10
OL20	DUMMY	0.107	0	09:08
OL21	DUMMY	0.000	0	00:00
OL22	DUMMY	0.006	0	09:07
OL23	DUMMY	0.266	0	09:18
OL24	DUMMY	0.065	0	09:14
OL25	DUMMY	0.316	0	09:04
OL26	DUMMY	0.044	0	09:08
OL27	DUMMY	0.287	0	09:09
OL28	DUMMY	0.316	0	09:06
OL29	DUMMY	0.225	0	09:12
OL3	DUMMY	0.316	0	09:05
OL30	DUMMY	0.000	0	00:00
OL31	DUMMY	0.049	0	09:07
OL32	DUMMY	0.218	0	09:08
OL33	DUMMY	0.000	0	00:00
OL34	DUMMY	0.316	0	09:05
OL35	DUMMY	0.055	0	09:10
OL36	DUMMY	0.081	0	09:13
OL37	DUMMY	0.316	0	09:06
OL38	DUMMY	0.316	0	09:05
OL39	DUMMY	0.060	0	09:08
OL4	DUMMY	0.046	0	09:08
OL40	DUMMY	0.128	0	09:07
OL41	DUMMY	0.000	0	00:00
OL42	DUMMY	0.197	0	09:09
OL43	DUMMY	0.000	0	00:00
OL44	DUMMY	0.000	0	00:00
OL45	DUMMY	0.143	0	09:10

OL46	DUMMY	0.161	0	09:14
OL47	DUMMY	0.088	0	09:08
OL48	DUMMY	0.006	0	09:19
OL49	DUMMY	0.000	0	00:00
OL50	DUMMY	0.004	0	09:17
OL51	DUMMY	0.153	0	09:07
OL52	DUMMY	0.128	0	09:08
OL53	DUMMY	0.105	0	09:08
OL6	DUMMY	0.011	0	09:05
OL7	DUMMY	0.222	0	09:08
OL8	DUMMY	0.259	0	09:08
OL9	DUMMY	0.316	0	09:02

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Flow Classification Summary
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	Adjusted	---------- Fraction of Time in Flow Class ----------								
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl
C_dummy	1.00	0.00	0.00	0.00	0.05	0.95	0.00	0.00	0.01	0.00
C1	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.54	0.00
C100	1.00	0.00	0.00	0.00	0.77	0.00	0.00	0.23	0.00	0.00
C106	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.78	0.00
C108	1.00	0.23	0.00	0.00	0.31	0.00	0.00	0.46	0.53	0.00
C110	1.00	0.23	0.00	0.00	0.34	0.00	0.00	0.42	0.47	0.00
C111	1.00	0.60	0.02	0.00	0.38	0.00	0.00	0.00	0.45	0.00
C113	1.00	0.23	0.00	0.00	0.33	0.00	0.00	0.44	0.02	0.00
C114	1.00	0.23	0.00	0.00	0.24	0.00	0.00	0.53	0.54	0.00
C115	1.00	0.23	0.00	0.00	0.18	0.00	0.00	0.59	0.61	0.00
C116	1.00	0.52	0.03	0.00	0.45	0.00	0.00	0.00	0.38	0.00
C118	1.00	0.29	0.20	0.00	0.51	0.00	0.00	0.00	0.31	0.00
C119_1	1.00	0.35	0.14	0.00	0.51	0.00	0.00	0.00	0.31	0.00
C119_2	1.00	0.00	0.00	0.00	0.77	0.00	0.00	0.23	0.00	0.00
C123	1.00	0.00	0.00	0.00	0.77	0.00	0.00	0.23	0.11	0.00
C124	1.00	0.00	0.00	0.00	0.63	0.00	0.00	0.37	0.00	0.00
C125	1.00	0.00	0.00	0.00	0.74	0.00	0.00	0.25	0.00	0.00
C126	1.00	0.00	0.00	0.00	0.75	0.00	0.00	0.25	0.00	0.00

C127	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C128	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C129	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.18	0.00
C130	1.00	0.00	0.00	0.00	0.53	0.00	0.00	0.47	0.13	0.00
C145	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C147	1.00	0.00	0.00	0.00	0.11	0.02	0.00	0.87	0.00	0.00
C150	1.00	0.00	0.00	0.00	0.24	0.00	0.00	0.76	0.02	0.00
C151	1.00	0.21	0.01	0.00	0.32	0.00	0.00	0.45	0.50	0.00
C156	1.00	0.72	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C159	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C160	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C161	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C164	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.15	0.00
C165	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C167	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
C185	1.00	0.00	0.00	0.00	0.11	0.00	0.00	0.89	0.00	0.00
C186	1.00	0.00	0.00	0.00	0.44	0.00	0.00	0.55	0.04	0.00
C187	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.83	0.00
C188	1.00	0.01	0.00	0.00	0.08	0.00	0.00	0.91	0.00	0.00
C189	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C190	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C193	1.00	0.24	0.00	0.00	0.03	0.00	0.00	0.73	0.00	0.00
C194	1.00	0.21	0.02	0.00	0.19	0.00	0.00	0.58	0.06	0.00
C2	1.00	0.00	0.00	0.00	0.77	0.00	0.00	0.22	0.34	0.00
C200-	1.00	0.00	0.00	0.00	0.09	0.14	0.00	0.77	0.05	0.00
C205	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.00	0.00
C206	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.95	0.00	0.00
C207	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.01	0.00
C211	1.00	0.00	0.23	0.00	0.76	0.00	0.00	0.00	0.00	0.00
C212	1.00	0.23	0.00	0.00	0.39	0.00	0.00	0.38	0.00	0.00
C213	1.00	0.23	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
C228	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.81	0.00
C229	1.00	0.96	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C230	1.00	0.00	0.82	0.00	0.18	0.00	0.00	0.00	0.57	0.00
C231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
C232	1.00	0.35	0.34	0.00	0.31	0.00	0.00	0.00	0.50	0.00
C233	1.00	0.00	0.35	0.00	0.65	0.00	0.00	0.00	0.17	0.00
C234	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C235	1.00	0.25	0.01	0.00	0.05	0.00	0.00	0.69	0.01	0.00
C239	1.00	0.23	0.00	0.00	0.25	0.00	0.00	0.52	0.54	0.00
C240	1.00	0.23	0.00	0.00	0.18	0.00	0.00	0.59	0.01	0.00

C244	1.00	0.23	0.00	0.00	0.18	0.00	0.00	0.58	0.01	0.00
C245	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C246	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C248	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C250	1.00	0.96	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C251	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C252	1.00	0.00	0.00	0.00	0.05	0.09	0.00	0.86	0.04	0.00
C253	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.02	0.00
C254	1.00	0.00	0.00	0.00	0.02	0.02	0.00	0.95	0.00	0.00
C255	1.00	0.23	0.00	0.00	0.05	0.00	0.00	0.72	0.00	0.00
C256	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C257	1.00	0.23	0.00	0.00	0.03	0.00	0.00	0.73	0.00	0.00
C258	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C259	1.00	0.23	0.00	0.00	0.04	0.00	0.00	0.73	0.00	0.00
C26	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.89	0.02	0.00
C260	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C263	1.00	0.23	0.00	0.00	0.04	0.00	0.00	0.73	0.00	0.00
C269	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C27	1.00	0.00	0.00	0.00	0.06	0.00	0.00	0.93	0.00	0.00
C28	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.90	0.00
C281	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.89	0.00	0.00
C284	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.00	0.00
C285	1.00	0.22	0.01	0.00	0.12	0.00	0.00	0.65	0.01	0.00
C288	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C289	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C292	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C293	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.25	0.00
C3	1.00	0.00	0.00	0.00	0.59	0.01	0.00	0.40	0.17	0.00
C343	1.00	0.00	0.00	0.00	0.15	0.00	0.00	0.85	0.00	0.00
C344	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.88	0.00
C345	1.00	0.00	0.00	0.00	0.39	0.00	0.00	0.61	0.00	0.00
C346	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C347	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.38	0.00
C348	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C349	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.96	0.00
C350	1.00	0.00	0.00	0.00	0.41	0.58	0.00	0.00	0.01	0.00
C351	1.00	0.76	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C352	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.17	0.00
C353	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	1.00	0.00	0.00	0.00	0.37	0.00	0.00	0.63	0.05	0.00
C437	1.00	0.23	0.00	0.00	0.06	0.00	0.00	0.70	0.01	0.00

C48	1.00	0.23	0.00	0.00	0.06	0.00	0.00	0.70	0.00	0.00
C5	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.98	0.00
C50	1.00	0.76	0.07	0.00	0.18	0.00	0.00	0.00	0.59	0.00
C53	1.00	0.00	0.00	0.00	0.36	0.01	0.00	0.63	0.16	0.00
C54	1.00	0.00	0.00	0.00	0.35	0.00	0.00	0.65	0.05	0.00
C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C653	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.95	0.00	0.00
C655	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.93	0.00	0.00
C656	1.00	0.00	0.00	0.00	0.58	0.00	0.00	0.42	0.00	0.00
C657	1.00	0.95	0.01	0.00	0.00	0.03	0.00	0.01	0.62	0.00
C658	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C660	1.00	0.00	0.00	0.00	0.19	0.47	0.00	0.34	0.45	0.00
C662	1.00	0.00	0.01	0.00	0.92	0.07	0.00	0.00	0.00	0.00
C663	1.00	0.00	0.00	0.00	0.22	0.00	0.00	0.77	0.02	0.00
C664	1.00	0.00	0.00	0.00	0.44	0.56	0.00	0.00	0.86	0.00
C665	1.00	0.00	0.96	0.00	0.04	0.00	0.00	0.00	0.62	0.00
C666	1.00	0.00	0.00	0.00	0.06	0.93	0.00	0.00	0.30	0.00
C667	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.95	0.01	0.00
C668	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C669	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
C670	1.00	0.01	0.74	0.00	0.26	0.00	0.00	0.00	0.61	0.00
C671	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C672	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C673	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.02	0.00
C674	1.00	0.02	0.00	0.00	0.21	0.77	0.00	0.00	0.08	0.00
C685	1.00	0.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C686	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C687	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C688	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.66	0.00
C689	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C690	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C7	1.00	0.00	0.00	0.00	0.46	0.54	0.00	0.00	0.04	0.00
C700	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
C701	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C702	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.08	0.00
C703	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C704	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.06	0.00
C705	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C707	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C708	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C709	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C710	1.00	0.00	0.00	0.00	0.02	0.04	0.00	0.93	0.01	0.00
C711	1.00	0.00	0.00	0.00	0.24	0.00	0.00	0.76	0.09	0.00
C712	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
C713	1.00	0.00	0.00	0.00	0.42	0.00	0.00	0.57	0.13	0.00
C714	1.00	0.00	0.01	0.00	0.21	0.00	0.78	0.00	0.00	0.00
C715	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.93	0.00	0.00
C716	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.95	0.00	0.00
C717	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.90	0.00	0.00
C718	1.00	0.01	0.72	0.00	0.28	0.00	0.00	0.00	0.55	0.00
C727	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C734	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C735	1.00	0.00	0.00	0.00	0.21	0.00	0.00	0.78	0.00	0.00
C736	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C737	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C739	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C740	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C741	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C751	1.00	0.01	0.00	0.00	0.15	0.16	0.00	0.68	0.13	0.00
C752	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
C753	1.00	0.00	0.00	0.00	0.08	0.00	0.00	0.92	0.00	0.00
C754	1.00	0.00	0.00	0.00	0.80	0.20	0.00	0.00	0.90	0.00
C755	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.04	0.00
C756	1.00	0.00	0.00	0.00	0.19	0.00	0.00	0.81	0.00	0.00
C757	1.00	0.01	0.00	0.00	0.06	0.00	0.00	0.93	0.00	0.00
C758	1.00	0.00	0.00	0.00	0.22	0.78	0.00	0.00	0.01	0.00
C759	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C760	1.00	0.23	0.01	0.00	0.76	0.00	0.00	0.00	0.62	0.00
C762	1.00	0.65	0.25	0.00	0.10	0.00	0.00	0.00	0.60	0.00
C763	1.00	0.00	0.05	0.00	0.56	0.39	0.00	0.00	0.00	0.00
C764	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
C765	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.86	0.00
C766	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.83	0.00
C767	1.00	0.01	0.00	0.00	0.07	0.00	0.00	0.92	0.00	0.00
C77	1.00	0.00	0.00	0.00	0.26	0.00	0.00	0.74	0.02	0.00
C8	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
C80	1.00	0.00	0.00	0.00	0.12	0.00	0.00	0.88	0.02	0.00
C94	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.41	0.00
CB72	1.00	0.00	0.00	0.00	0.21	0.01	0.00	0.78	0.10	0.00
MC_C6	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.69	0.00

MC10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC100	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC101	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC102	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.14	0.00
MC103	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC104	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC105	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.28	0.00
MC107	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.92	0.00
MC108	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.62	0.00
MC109	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.83	0.00
MC11	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC12	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC120	1.00	0.00	0.03	0.00	0.97	0.00	0.00	0.00	0.92	0.00
MC121	1.00	0.00	0.03	0.00	0.97	0.00	0.00	0.00	0.92	0.00
MC122	1.00	0.00	0.03	0.00	0.97	0.00	0.00	0.00	0.92	0.00
MC123	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
MC124	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC125	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC126	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC128	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC129	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC130	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC131	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.08	0.00
MC132	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC133	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.73	0.00
MC135	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.76	0.00
MC136	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.11	0.00
MC137	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC139	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.26	0.00
MC14	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.82	0.00
MC141	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.80	0.00
MC142	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC143	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.10	0.00
MC144	1.00	0.00	0.00	0.00	0.18	0.82	0.00	0.00	0.16	0.00
MC145	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.19	0.00
MC146	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.31	0.00
MC147	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC148	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC149	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00

MC150	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC151	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.71	0.00
MC152	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.60	0.00
MC153	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00
MC154	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC155	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC156	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC157	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC158	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC159	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC16	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC160	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC161	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC162	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC163	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC164	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC165	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.63	0.00
MC166	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.96	0.00
MC167	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC168	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.36	0.00
MC169	1.00	0.22	0.00	0.00	0.73	0.05	0.00	0.00	0.01	0.00
MC17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC170	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.37	0.00
MC171	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC172	1.00	0.00	0.00	0.00	0.71	0.29	0.00	0.00	0.97	0.00
MC173	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC174	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC175	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC176	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC177	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.00
MC178	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC179	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC18	1.00	0.00	0.22	0.00	0.78	0.00	0.00	0.00	0.61	0.00
MC180	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC181	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC182_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.80	0.00
MC182_2	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.02	0.00
MC182_3	1.00	0.01	0.20	0.00	0.79	0.00	0.00	0.00	0.00	0.00
MC182_5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC183	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.10	0.00
MC184	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.82	0.00

MC185	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC186	1.00	0.00	0.00	0.00	0.80	0.20	0.00	0.00	0.94	0.00
MC187	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC188	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC189	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.98	0.00
MC19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC190	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC191	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC192	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC193	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_1	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_2	1.00	0.69	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC195	1.00	0.00	0.69	0.00	0.31	0.00	0.00	0.00	0.61	0.00
MC196	1.00	0.00	0.20	0.00	0.80	0.00	0.00	0.00	0.54	0.00
MC197	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.71	0.00
MC198	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC199	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC200	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC201	1.00	0.82	0.14	0.00	0.03	0.00	0.00	0.00	0.62	0.00
MC202	1.00	0.01	0.82	0.00	0.18	0.00	0.00	0.00	0.61	0.00
MC203	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC204	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC205	1.00	0.96	0.00	0.00	0.04	0.00	0.00	0.00	0.61	0.00
MC206	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.47	0.00
MC207	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.80	0.00
MC208	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC209	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC21	1.00	0.18	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
MC210	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC211	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC212	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.85	0.00
MC213	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC214_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC214_2	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.93	0.00
MC215	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC216	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC217	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC218	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC219	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.11	0.00

MC22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC220	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.91	0.00
MC221	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC223	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.93	0.00
MC224	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC225	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC226	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC227	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.28	0.00
MC228	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.19	0.00
MC229	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.35	0.00
MC23	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC230	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.93	0.00
MC231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.93	0.00
MC232	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC24	1.00	0.19	0.00	0.00	0.77	0.04	0.00	0.00	0.01	0.00
MC25	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.93	0.00
MC26	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC27	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
MC28	1.00	0.00	0.00	0.00	0.88	0.12	0.00	0.00	0.04	0.00
MC29	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC30	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00
MC32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC34	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC35	1.00	0.00	0.08	0.00	0.92	0.00	0.00	0.00	0.78	0.00
MC36	1.00	0.00	0.08	0.00	0.92	0.00	0.00	0.00	0.00	0.00
MC37	1.00	0.00	0.00	0.00	0.46	0.54	0.00	0.00	0.49	0.00
MC38	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.21	0.00
MC39	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.65	0.00
MC4	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC40	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC41	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC42	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC43	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC44	1.00	0.00	0.22	0.00	0.78	0.00	0.00	0.00	0.63	0.00
MC45	1.00	0.00	0.22	0.00	0.78	0.00	0.00	0.00	0.59	0.00
MC46	1.00	0.00	0.20	0.00	0.80	0.00	0.00	0.00	0.56	0.00
MC47	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC48	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC49	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC50	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC51	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC52	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.91	0.00
MC53	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC54	1.00	0.00	0.12	0.00	0.88	0.00	0.00	0.00	0.08	0.00
MC55	1.00	0.00	0.12	0.00	0.88	0.00	0.00	0.00	0.73	0.00
MC56	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.61	0.00
MC57	1.00	0.00	0.12	0.00	0.88	0.00	0.00	0.00	0.73	0.00
MC58	1.00	0.00	0.13	0.00	0.87	0.00	0.00	0.00	0.00	0.00
MC59	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC6	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.15	0.00
MC62	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC64	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC65	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC66	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC67	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC68	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC69	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27	0.00
MC7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC70	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC71	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC72	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC73	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC74	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.29	0.00
MC75	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC76	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC77	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.20	0.00
MC78	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC79	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC8	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC80	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC82	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC83	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC84	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.81	0.00
MC85	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC86	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.12	0.00
MC87	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC89	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC9	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC90	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC91	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.00
MC92	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC93	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC97	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.15	0.00
MC98	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.78	0.00
MC99	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MJ-C5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MJ-C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MJ-C7	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
MJ-C8	1.00	0.03	0.00	0.00	0.79	0.19	0.00	0.00	0.06	0.00

****
Conduit Surcharge Summary
****

	Hours Full			Hours Above Full	Hours Capacity
Conduit	Both Ends	Upstream	Dnstream	Normal Flow	Limited
C100	3.74	3.74	4.03	0.72	0.67
C106	1.10	1.10	2.73	0.46	0.45
C108	0.31	0.31	1.61	0.01	0.01
C110	1.91	1.91	2.58	0.01	0.01
C111	2.53	2.53	3.67	0.01	0.01
C113	1.92	1.92	2.53	0.01	0.01
C114	0.30	0.30	0.37	0.01	0.01
C115	0.01	0.01	0.27	0.01	0.01
C116	3.67	3.67	4.20	0.01	0.01
C118	4.35	4.35	5.29	0.01	0.01
C119_1	1.84	1.84	2.65	0.01	0.01
C119_2	4.28	4.32	5.51	0.65	0.58
C123	4.93	4.93	5.66	0.49	0.47
C124	4.60	4.60	4.73	0.71	0.69
C125	4.96	4.98	6.19	0.34	0.12
C126	6.98	7.00	7.37	0.54	0.31
C130	2.74	2.74	4.29	0.01	0.01
C145	0.01	0.58	0.01	0.85	0.01
C147	0.01	0.01	0.01	0.64	0.01

C150	0.19	0.57	0.20	0.82	0.19
C167	0.19	0.31	0.19	0.41	0.19
C185	0.12	0.12	0.22	0.01	0.03
C186	0.24	0.24	0.25	0.01	0.08
C187	0.26	0.26	0.26	0.32	0.18
C188	0.24	0.26	0.24	0.32	0.19
C194	0.03	0.03	0.33	0.01	0.01
C2	2.72	2.73	3.98	0.56	0.54
C200-	0.41	0.41	0.44	0.14	0.14
C206	0.08	0.08	0.10	0.01	0.01
C207	0.15	0.15	0.19	0.01	0.01
C211	0.01	0.01	14.95	0.01	0.01
C228	1.71	1.71	3.64	0.01	0.01
C230	1.04	1.04	1.05	0.01	0.01
C231	1.35	1.35	1.38	0.18	0.24
C232	1.12	1.12	1.23	0.01	0.01
C233	1.23	1.23	1.35	0.48	0.02
C235	0.01	0.01	0.15	0.01	0.01
C239	1.65	1.69	1.81	0.01	0.09
C240	0.76	0.76	1.41	0.01	0.01
C244	0.35	0.35	0.56	0.01	0.01
C248	0.38	0.46	0.38	0.55	0.38
C252	0.23	0.23	0.27	0.01	0.01
C253	0.19	0.29	0.19	0.37	0.19
C254	0.19	0.19	0.35	0.03	0.02
C255	0.29	0.29	0.35	0.01	0.01
C256	0.36	0.36	0.38	0.01	0.01
C257	0.17	0.17	0.19	0.01	0.01
C258	0.32	0.38	0.32	0.43	0.26
C259	0.25	0.25	0.25	0.01	0.01
C26	0.37	0.37	0.49	0.01	0.01
C260	0.29	0.71	0.29	0.48	0.05
C263	0.24	0.24	0.26	0.01	0.01
C27	0.48	0.50	0.48	0.52	0.48
C28	0.44	0.44	0.52	0.01	0.01
C281	0.65	0.70	0.65	0.48	0.42
C284	0.31	0.41	0.48	0.52	0.24
C285	0.25	0.26	0.38	0.01	0.09
C288	0.01	2.12	0.01	2.33	0.01
C3	2.43	2.43	3.70	0.01	0.01
C343	1.12	1.13	1.18	1.22	0.84

C344	1.31	1.31	1.51	0.36	0.39
C345	1.24	1.41	1.24	1.57	1.24
C346	0.01	0.49	0.01	0.63	0.01
C348	20.76	20.76	20.79	5.40	0.01
C349	0.29	0.29	20.89	0.01	0.01
C350	0.29	0.55	0.29	0.64	0.23
C4	0.01	0.01	2.44	0.01	0.01
C437	0.02	0.02	0.31	0.01	0.01
C48	0.34	0.34	0.43	0.01	0.01
C5	0.01	0.01	15.31	0.01	0.01
C50	0.56	0.56	0.78	0.01	0.01
C53	0.51	0.51	1.12	0.03	0.03
C54	0.71	0.71	1.10	0.27	0.27
C653	0.37	0.43	0.37	0.54	0.37
C655	0.37	0.37	0.38	0.29	0.28
C656	0.37	0.37	0.37	0.48	0.36
C658	0.37	0.45	0.37	0.56	0.37
C660	0.31	0.36	0.35	0.45	0.26
C662	0.01	0.01	2.06	4.68	0.01
C663	1.46	1.46	1.90	0.01	0.05
C664	1.25	1.35	1.26	1.46	1.06
C665	0.01	0.01	14.86	0.01	0.01
C666	0.01	0.40	0.01	0.47	0.01
C673	0.01	0.01	0.17	0.01	0.01
C674	1.22	1.22	2.30	2.30	1.17
C700	1.17	1.17	3.60	3.74	0.01
C701	0.01	0.45	0.01	0.59	0.01
C710	0.09	0.09	0.15	0.01	0.01
C711	0.17	0.17	2.15	0.01	0.01
C712	2.51	2.51	6.93	1.28	1.25
C713	2.21	2.22	2.40	0.01	0.01
C714	1.28	1.28	1.38	0.50	0.06
C715	0.32	0.62	0.32	1.47	0.32
C716	0.39	0.45	0.39	0.49	0.39
C717	0.39	0.39	0.41	0.21	0.22
C718	0.49	0.49	0.68	0.01	0.01
C751	0.01	0.01	1.78	0.01	0.01
C752	2.07	2.07	2.90	1.87	1.82
C753	0.55	1.26	0.56	1.54	0.52
C754	1.05	1.05	1.35	0.01	0.01
C755	0.75	0.75	1.30	0.01	0.01

C756	0.39	0.40	0.44	0.01	0.01
C757	0.39	0.39	0.39	0.37	0.37
C758	0.01	0.01	0.01	0.16	0.01
C760	0.01	0.01	0.02	0.01	0.01
C762	0.01	0.01	0.63	0.01	0.01
C763	0.01	0.01	20.19	0.01	0.01
C764	0.62	1.02	0.62	1.39	0.62
C765	2.40	2.40	2.46	0.01	0.08
C766	2.46	2.46	2.51	0.70	0.79
C767	0.42	0.47	0.42	0.57	0.42
C77	0.64	0.64	0.68	0.28	0.27
C80	0.56	0.57	0.64	0.38	0.36
C94	0.52	0.52	2.43	0.24	0.22
CB72	0.01	0.19	0.01	0.25	0.01
MC148	0.01	0.01	14.98	0.01	0.01
MC168	0.29	0.29	14.98	0.01	0.01
MC189	0.01	0.01	2.94	0.01	0.01
MC196	0.01	0.01	0.09	0.01	0.01
MC197	0.01	0.01	0.09	0.01	0.01
MC202	0.01	0.01	0.36	0.01	0.01
MC207	0.56	0.56	1.21	0.01	0.01
MC208	0.01	0.01	0.01	0.41	0.01
MC220	0.01	0.01	0.36	0.01	0.01
MC231	0.01	0.01	14.98	0.01	0.01
MC7	0.01	0.01	1.14	0.01	0.01
MJ-C5	0.01	0.49	0.01	0.01	0.01

Analysis begun on: Thu Sep 7 14:13:19 2023
Analysis ended on: Thu Sep 7 14:13:33 2023
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Appendix C

Technical Memorandum #3 – Alternatives Development and Evaluation

Lambton Shores

Technical Memorandum #3

Evaluation of Stormwater Management Alternatives

Grand Bend Stormwater Management Masterplan

December 2023

Technical Memorandum #3

Evaluation of Stormwater Management Alternatives

Grand Bend Stormwater Management Masterplan

December 20, 2023

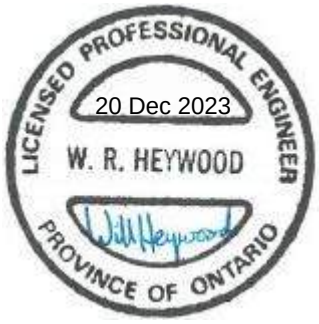
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Appendix A. Supporting Documents

Appendix B. Baseline Model Input & Output Data

APPENDIX C Proposed Condition Model with improvements Input & Output Data

1 Introduction

The purpose of this Technical Memo (TM3) is to develop and evaluate alternatives to the problems identified in TM2 for the Village of Grand Bend (the Village). This document outlines the existing deficiencies in the Village's stormwater infrastructure and proposes solutions for improvement. TM3 will include the development of alternatives, performance information, costs, evaluation of alternatives, and the selection of a preferred alternative for each stormwater service area (refer to **Section 5**). The assessment of problem areas and development of solutions was facilitated by a PCSWMM dual-drainage model of the stormwater system.

1.1 Background and Purpose

The purpose of this document is to identify areas where the stormwater system falls short in handling runoff (i.e., flooding), erosion, and water quality. It aims to offer practical strategies that can be adopted to address these issues and enhance the Village's SWM capabilities.

By addressing these deficiencies and implementing effective solutions, the Village can ensure the long-term sustainability of its SWM system(s). This document provides a foundation for informed decision-making, aligning with the Village's commitment to environmental responsibility and community well-being.

1.2 Scope of the Memo

Following completion of the baseline model, the Study Area is divided into several stormwater service areas generally bounded by the minor and/or major system drainage in this memo. The areas where the system is inadequate in handling runoff, erosion, water quality, and flooding are identified, and alternative solutions are considered to improve the storm level of service resulting in recommendations for each area through PCSWMM modeling.

The memo presents a range of practical mitigation options that the Village can consider addressing these deficiencies in the following sections. The focus of short-term infrastructure improvements is a conceptual Inlet Control Device (ICD) plan and other major overland system improvement recommendations. Long term solutions focus primarily on initiatives currently planned by the Village, including proposed sewer upgrades, along with some high-level opportunities that can be looked at in further detail.

Additionally, it will provide insights into the potential economic, environmental, and social benefits of implementing these solutions. The memo's scope includes recommendations for short-term actions and long-term strategies, as well as considerations for stakeholder engagement, regulatory compliance, and funding sources.

1.3 Methodology

The methodology employed in this analysis aimed to identify SWM deficiencies within the Village’s municipal storm system. The central approach involved utilizing a hydrology/hydraulic dual-drainage model (PCSWMM) to determine potential flooding locations, which were then compared with reported instances of flooding. This method allowed for a comprehensive assessment of the stormwater system's effectiveness in mitigating flooding risks.

1.3.1 Data Collection

- Gathered topographical data, land use patterns, and historical rainfall records for the Study Area, including additional field work performed by Arcadis staff to gather additional storm sewer information not initially available.
- GIS data received from the Municipality and included physical information about the Study Area and field survey completed for all critical information to supplement the data gaps.
- Obtained reported instances of flooding from municipal records and community feedback from a Public Information Centre (PIC1) held in the Village July 20, 2023.

1.3.2 Hydraulic and Hydrological Modeling

- Utilized advanced hydraulic and hydrological modeling software to simulate stormwater runoff patterns.
- Incorporated rainfall data into the models to predict the pathways and accumulation of stormwater during precipitation events.
- Utilized climate change scenarios developed in TM2.

1.3.3 Flood Susceptibility Mapping

- Generated flood susceptibility maps by identifying low-lying areas prone to inundation during intense rain events.
- Overlayed predicted flooding locations with critical infrastructure, roadways, and residential zones to assess potential impact.

1.3.4 Comparison with Reported Flooding

- Cross-referenced the predicted flooding locations with documented instances of flooding reported by residents and municipal records.
- Analyzed the degree of alignment between predicted and reported flooding to identify areas of agreement and divergence.

1.3.5 Deficiency Identification

- Recognized areas where predicted flooding closely matched reported flooding as indicative of well-managed stormwater infrastructure.
- Identified disparities between predicted and reported flooding as potential SWM deficiencies.

1.3.6 Mitigation Option Assessment

- Evaluated potential mitigation options, such as increased drainage capacity, green infrastructure, and erosion control measures.
- Considered the feasibility, effectiveness, and cost-efficiency of each option within the context of the identified deficiencies.

Given the deficiencies, a range of SWM practices will be considered to identify the most applicable measures to improve the Level of Service (LOS) based on objectives set for each stormwater service area. Typically, it will take a range of measures to achieve the LOS possibly involving system upgrades/replacement, maintenance/ rehabilitation, source controls, retrofit, as well as policy changes. For example, a possible strategy could include a combination of pipe upgrades, source controls (i.e., LID), the use of local or centralized treatment systems retrofitted (i.e., oil and grit separators, or equivalent), overcontrol for new or infill development to reduce runoff and enhance water quality, or an end-of-pipe facility/feature.

Arcadis will develop a list of various SWM alternatives to address the goals of the study and needs of each stormwater service area, potentially consisting of SWM Ponds, retrofits, LIDs, pipe upsizing, etc. For each stormwater service area, a long list of alternatives will be considered to address the SWM and servicing needs for existing and future conditions. The long list of alternatives will be reviewed with the Municipality and qualitatively assessed to identify a short list of alternatives for more detailed consideration and evaluation. The impact of infill development on stormwater services will be evaluated alongside existing system needs identified in the baseline assessment to identify if the proposed baseline improvements should be enhanced for future infill development. Furthermore, new growth and infill developments may entail more stringent stormwater controls in the existing urban areas for infill development to protect the LOS and minimize the risk of flooding or identify the need to upgrade storm infrastructure.

Based on a short list of alternatives for each stormwater service area, a comparative evaluation of the alternative solutions will be carried out using a systematic approach that fulfills the intent of the Class EA process. The evaluation process will be in the form of an evaluation matrix with respect to criteria that fall into the following categories:

- Physical/Natural Environment: These include potential impacts on natural terrestrial features and aquatic habitat and will include consideration of net change on hydrologic water balance and pollutant loadings to natural watercourses.
- Social/Cultural Environment: This category will address potential concerns regarding public safety and health; and how all proposed facilities may fit into existing or future built-up areas.
- Technical/Engineering Consideration: Includes consideration of how easily implementation can occur as new land development occurs; and how well the SWM plan integrates with current land use planning and the development approval process.
- Economic Environment: Includes initial capital cost including consideration of any need for property acquisition; expected life cycle costs; and implications for future financing of centralized stormwater facilities that may serve more than one development property.

The evaluation criteria and approach will be reviewed with the Municipality, ABCA, First Nations, MECP, Ministry of Transportation, Ministry of Natural Resources and TAC along with a review of the long list of alternatives. Following the TAC 3 meeting, the evaluation process and criteria will be established along with the long list of potential alternatives.

In following the Class EA process, the “Do Nothing” alternative will be considered. Typically, other alternatives will include some combination of system upgrades, storage, and/or system retrofits including regulatory changes and operation/maintenance recommendations to meet the objectives of the SWMP. Evaluation of the alternatives will be undertaken in consultation with Municipality staff to arrive at a set of alternatives to improve the LOS for existing and future stormwater services.

1.3.7 Cost-Benefit Analysis

- Conducted a preliminary cost-benefit analysis for each mitigation option, factoring in initial investment, maintenance costs, and potential reduction in flooding incidents. Refer to **Section 4.4** - Economic Environment.

1.3.8 Recommendations

- Derived a set of prioritized recommendations based on the alignment between predicted and reported flooding, the identified deficiencies, and the feasibility of mitigation options.
- Presented short-term and long-term strategies that address the deficiencies while considering potential economic, environmental, and social benefits.

By combining advanced modeling techniques with real-world observations of flooding incidents, this methodology offers a robust foundation for assessing SWM deficiencies and formulating targeted solutions tailored to the unique challenges faced by the Village.

2 Stormwater Management Deficiencies

The baseline model performance has been assessed in TM2. The following sections outline the Stormwater Management (SWM) deficiencies in the storm system identified in TM2.

2.1 Overview of Existing Municipal Storm System

Figure 2-1 shows an overview of the existing baseline model including all sub-catchments, major and minor system, ponds, infiltration trench and dry wells/open bottom CBs.

With the latest as-built drawings (Kitchener Avenue & Centre Street) received from the Municipality, existing infiltration trenches are incorporated in the model. The dimensions are summarized in the table below.

Table 2.1 Existing Infiltration Trench Summary Table

TRENCH ID#	WIDTH	DEPTH	LENGTH	MINIMUM COVER ABOVE STONE
1	1.0m	1.6m	6.5m	1.2m
2			11.0m	
3			17.0m	
4			11.0m	
5	1.0m	1.0m	4.5m	0.6m
6				

2.1.1 Baseline Model Performance Summary

Results of the baseline model performance indicate that the existing minor system is over capacity in the 5-year storm event in some areas.

Some of the key observations include:

- Less than half (35%) of pipes exhibit surcharging conditions in the 5-year storm event, of which 12% are over capacity and 23% are backwater condition. Some identified problematic areas are surcharging to the surface in 5-year events.
- The risk of basement flooding is high for properties with direct connections to the storm system. In total, 38% of manholes have a maximum hydraulic grade line (HGL) within 1.8m of the ground surface in the 5-year storm event and 9% of the total minor structures have the flow spill to the surface.
- Most of the major system does not have significant ponding in 5-year storm events. However, significant ponding (greater than 0.3m) and surface flooding is expected in specific areas including on:
  - Gibbs Lane at Lakeside Circle
  - Pine Street at Centre Street, Government Drive at Main Street West
  - Corner of Walker Street and Huron Street, and, on Oak St and Walker Street.
  - Some ponding is expected in areas including Sauble River Road at 81st Crescent, Green Acres Crescent intersection, Morenz Lane between Eilber Road and Main Street West.

A summary of the results for the manholes, conduits capacity and major system ponding during the 5-year storm event are shown in **Table 2.2**.

Table 2.2 5-Year Storm Event System Performance Summary Table

HYDRAULIC COMPONENTS	NUMBER	FLOODING CONDITIONS
Minor Nodes (Flow to Surface)	16	Flooded
Minor Nodes (Freeboard <1.8m)	65	High Risk
Minor Nodes (Freeboard >1.8m)	92	Low Risk
Surcharged Pipe (Backwater)	41	Surcharging
Surcharged Pipe (Over Capacity)	21	Surcharging
Free Flow Pipe	114	Free
Major Nodes (Ponding >300mm)	18	Significant Flooding
Major Nodes (Ponding between 150 and 300mm)	21	Slight Flooding
Major Nodes (Ponding <150mm)	133	No Flooding

During a 100-year storm event, the results of the modelled performance runs demonstrate that:

- In more extreme storms, surcharging conditions continue to increase with the majority (59%) of pipes surcharging in the 100-year storm event in the urban area of the Study Area.
- Most of the major system (85%) does not have significant ponding in large storm events. Significant ponding (greater than 300mm) occurred in both 5-year and 100-year events on:
  - Ontario Street North, Gill Road, Main Street West
  - Gibbs Lane at Lakeside Circle; Pine Street at Centre Street
  - Government Drive at Main Street West; Morenz Lane between Eilber Road
  - Corner of Walker Street and Huron Street, and, on Oak Street and Walker Street
- More extreme storms due to climate change will exacerbate flooding conditions. This demonstrates that there is potential to limit flow to the minor system and convey additional overland flow using ICDs and improvements to the drainage system.

A summary of the results for the manholes, conduits capacity and major system ponding during the 100-year storm event are shown in **Table 2.3**.

Table 2.3 100-Year Storm Event System Performance Summary Table

HYDRAULIC COMPONENTS	NUMBER	FLOODING CONDITIONS
Minor Nodes (Flow to Surface)	59	Spill
Minor Nodes (Freeboard <1.8m)	67	High Risk
Minor Nodes (Freeboard >1.8m)	47	Low Risk
Surcharged Pipe (Backwater)	50	Surcharging
Surcharged Pipe (Over Capacity)	54	Surcharging
Free Flow Pipe	72	Free
Major Nodes (Ponding >300mm)	25	Significant Flooding
Major Nodes (Ponding between 150 and 300mm)	33	Slight Flooding
Major Nodes (Ponding <150mm)	114	No Flooding

The following **Table 2.4** describes the known Problematic Areas identified by the Municipality and residents, and how they relate to the PCSWMM model output. The problematic areas were shown in the Deficiencies Map **Figure 2-2**.

Table 2.4 Problematic Area Comparison

DESCRIPTION	LOCATION
Problem area overlapped (model and reported)	20 Queens Avenue (Centre/Queens), 16 Lakeside Circle; 1 Lakeside Circle, 17 Pine Street, Corner of Walker Street and Huron Street, and 45 Walker Street.
Problem area only Reported from Model	Green Acres Crescent intersection, 27 Morzen Lane, 25 Main Street West; Suable River Rd at 81st Crescent, Shady Lane, Dietrich Crescent, Ontario Street North, Gill Road
Problem Area only Reported by the client	19th Oak Street, 15 Elmwood, Government Road and 86 Main Street West, Erin Place

2.2 Identification of Deficiencies

As identified in TM2, localized flooding occurs frequently in various areas of the Village, as shown on **Figure 2-2**. The following sections discuss the causes and concerns.

2.2.1 Inadequate Drainage Capacity

The baseline model found that roughly 35% of the existing storm network is over capacity in a 5-year storm event. In many areas, the HGL in the storm sewer is expected to reach the basement floor slab elevation. The major system generally has adequate capacity, however in many areas drains to low points with insufficient outlets.

In some locations on Main Street West and Ontario Street North, the storm sewers are significantly over capacity with relatively low depth of flow on the road. It illustrates some areas of the major system have potential capacity for additional flow to be conveyed overland, demonstrating that overland drainage improvements without increasing the risk of surface flooding should be explored. In addition, model results indicate that storm sewers are over capacity and surcharging to the surface in major events (100-year storm) and significant surface ponding occurs in some areas.

2.2.2 Problematic Low Points with No Overland Outlets

The major system generally has adequate capacity, however in many areas drains to low points with insufficient outlets during a 5-year storm. Overland drainage in many of the areas tends to accumulate in a few problematic low points, as lack of overland outlets to effectively distribute water to areas with more available capacity exists. Overland flow was directed to a low point with no other outlet to capture and convey more flow away, resulting in significant ponding during a 100-year storm.

2.2.3 Erosion and Sedimentation Issues

No erosion or sedimentation issues were noted by the Village.

2.2.4 Water Balance

A water balance provides for an accounting of water transfers across a defined system's boundaries over a defined period. Any difference between the inflows to the system and the outflows from the system during this period must be balanced by a change of storage within the system. In designing infiltration targets for a defined area, the approach is modified through the introduction of mitigation measures, best practices or Low Impact Development tools to maintain align inputs and outputs to pre-development levels.

Natural consequences of urban development include a reduction in groundwater infiltration, diversion of this infiltration towards surface water bodies as runoff, altered flow regimes and channel erosion. Infiltrating rainwater also plays an important role in the protection of surface water and groundwater quality, as the percolation through soil pores acts as a natural filter to contaminants. An increased volume of runoff impacts erosion potential of receiving streams and an increased contaminant load to surface water bodies are common hydrologic consequences in the urban water cycle.

Development within the identified settlement areas in the Village of Grand Bend will organically increase the impervious cover across the Community. Impervious cover consists of pavements in the form of roadways, sidewalks, driveways and parking lots, as well as building rooftops.

2.2.5 Water Quality

Based on a review of the Lower Parkhill Watershed Report Card 2023[1]:

Surface Water Quality ranked as Fair (C). Of note is that the readings for total phosphorus was 0.153mg/L. High phosphorus concentrations can lead to excess algae and low oxygen in streams; therefore, consideration for reducing phosphorus loadings to the Lower Parkhill River should be given.

2.3 Potential Impact of Deficiencies

2.3.1 Localized Flooding

Of prime concern for the Village is addressing localized flooding impacts. These problematic areas were identified from the residents or the record of flooding history. Assessment of the flooding issues and opportunities in the problematic areas have been taken into specific considerations and investigation.

2.3.2 Environmental Impact

Potential impacts to consider include drinking water and the corresponding source water protection requirements.

The Clean Water Act (S.O. 2006, c. 22) was developed to protect existing and future sources of drinking water. The Act identified four types of vulnerable areas:

- Significant groundwater recharge area
- Highly vulnerable aquifer

[1] https://www.abca.ca/assets/files/Lower_Parkhill_Website_March_3_2023_ACK.pdf

- Intake protection zone (for surface-water sources of drinking water such as a Great Lake or large river).
- Wellhead protection area (a zone of protection around a municipal well).

The Ausable Bayfield Maitland Valley Source Protection Region website (https://www.sourcewaterinfo.on.ca/portfolio/fact-sheets/) provides information on source protection and the following sections briefly summarize various fact sheets as they relate to the SWMMP. The Ausable Bayfield Source Protection Plan (SPP) came into effect in April 2015 was amended in 2019 and has legal effect under the *Ontario Clean Water Act*, 2006.

2.3.2.1 Significant Groundwater Recharge Area (SGRA)

Recharge areas (consisting of loose or permeable soil) is considered significant when it helps maintain the water level in an aquifer that supplies a community with drinking water. Significant groundwater recharge areas (SGRAs) are areas where the recharge is 15% higher than the average recharge relative to the source protection area. SGRAs have been mapped within the Village of Grand Bend and are associated with sand plain surficial geology (Quaternary) mapping. SGRAs within the Village of Grand Bend are shown on **Figure 2-3**.

SGRAs are assigned a vulnerability score of 2 to 6, following the MECP's Technical Rules. As noted in the Ausable Bayfield SPP, no activities can be considered a significant drinking water threat in areas where the vulnerability score is less than 8. The policies in those areas are recommendations only as they do not have legal effect that requires property owners to comply. However, municipalities, implementing bodies, and people in the region should have regard for these policies.

2.3.2.2 Highly Vulnerable Aquifer (HVA)

Highly vulnerable aquifers (HVAs) within the Village of Grand Bend are shown in **Figure 2-3**. Much of the Village area is within an HVA due to the presence of permeable surficial sand deposits and a shallow water table. HVAs were mapped in the Source Protection Area as part of the Source Protection studies previously completed. HVAs are potentially impacted by the release of pollutants on the ground surface.

HVAs have a vulnerability score of 6, following the *Technical Rules*. Like the policies for SGRAs described above, no activities can be considered a significant drinking water threat in areas where the vulnerability score is less than 8. The policies in those areas are recommendations only as they do not have legal effect that requires property owners to comply. However, municipalities, implementing bodies, and people in the region should have regard for these policies.

2.3.2.3 Intake Protection Zone

There are two drinking water intake protection zones (IPZ) for the Lake Huron Water Treatment Plant, which provides source water for hundreds of thousands of people in the region.

The water supply for the Lake Huron Primary Water Supply is drawn from Lake Huron at Port Blake (near the Village of Grand Bend) about 2.5km offshore at a depth of nine meters. This intake and water treatment plant serves most towns and hamlets from Bayfield to London – about 400,000 people.

IPZ-1, defined as the intake and 1 km radius is located entirely within Lake Huron. IPZ-2 is defined as the area where water (and pollutants) can reach the intake in less than two hours. A portion of the Village area is within

IPZ-2, where the water takes two hours to reach the intake. The location of IPZ-1 and IPZ-2 for the Lake Huron Primary Water Supply is shown in **Figure 2-4**.

As noted in the SPP, IPZ-1 can receive a vulnerability score of 9 or 10, however, great lakes intakes, because they are large bodies of water, are adjusted to final vulnerability scores of 5 to 8. Similarly, IPZ-2 can receive a vulnerability score of 8 or 9 however, great lakes intakes, because they are large bodies of water, are adjusted to final vulnerability scores of 4 to 6.

Like the SPP policies for SGRAs and HVAs, no activities can be considered a significant drinking water threat in areas where the vulnerability score is less than 8. The policies in those areas are recommendations only as they do not have legal effect that requires property owners to comply. However, municipalities, implementing bodies, and people in the region should have regard for these policies.

Specific policies relevant to SGRAs, HVAs and / or IPZ-2 in the SPP include:

- Future / Replacement Large Septic Systems (Moderate and Low Threats. All future Environmental Compliance Approvals (ECAs) proposed in HVAs and / or SGRAs should include tertiary treatment systems where the Director considers it important.
- Education and outreach in HVAs and SGRAs. Within one year of the SPP coming into effect, the conservation authority should commence an outreach and education program to assist landowners and developers in understanding the impacts of land uses and activities on areas identified as HVAs and SGRAs. This may policies related to fuel handling and storage, existing waste disposal sites, and existing septic systems.

Education and outreach programs can educate property owners and businesses about how to address drinking water threats on their property. Such programs can be used to address one threat, a group of threats or all threats. Education policies can also be used to complement other policy tools. Use of materials already developed by other agencies will be incorporated.

The County of Lambton Official Plan (OP) has a number of policies pertaining to Drinking Water Source Protection. The OP indicated that where a planning application is submitted for non-residential within an IPZ area, the proponent should provide a Section 59 Restricted Land Use Notice issued by the risk management official under the *Clean Water Act*, 2006. This requirement for the IPZ-2 area identified above would have a vulnerability score of 4 to 6 and, as such no activities within the IPZ-2 would be considered a significant drinking water threat.

The County of Lambton OP also indicated that HVAs and SGRAs need to be protected across the County of Lambton to ensure a clean groundwater supply, as well as to provide base flows for surface water. As such, planning authorities, should consider the location of HVAs and SGRAs when making planning decisions. The County of Lambton may require reports or technical studies to be prepared by a qualified professional as part of any planning application subject to County approvals to identify, assess, and mitigate any potential impacts within vulnerable areas. These studies may include, but are not limited to planning justification reports, chemical storage disclosure reports, hydrogeological studies and spill prevention, spill contingency, and emergency response plans.

2.3.3 Road Salt and Snow Storage

2.3.3.1 Storage of Snow

Snow removed from roads and parking lots may be contaminated with salt, oil, grease and heavy metals. Storing large amounts of snow in one area concentrates the contaminants. Once the snow melts, these contaminants may reach groundwater or surface water. This poses a threat to drinking water sources.

Under Ontario's *Clean Water Act*, 2006 storage of snow in a wellhead protection area is a significant threat only where:

- The storage area, below grade, is larger than 0.01 hectares, or
- The storage area, above grade, is larger than 1 hectare.

No existing significant threats for snow storage have been identified in the Maitland Valley or Ausable Bayfield source protection areas.

2.3.3.2 Salt Storage and Application

Road salt is a tool to maintain safe roads but it has the potential to affect human health if it reaches sources of drinking water. Salt storage and application are considered a significant threat in wellhead protection areas when:

- Salt storage is greater than 5,000 tons, or
- Salt is applied where the impervious (for example paved) surface is greater than 80 percent.

No existing significant threats for salt storage or application have been identified in the Maitland Valley or Ausable Bayfield source protection areas.

2.3.4 Water Budget

As noted in TM2, The Municipality provided available geotechnical reports, specifically within the northern downtown Village area, that include soil stratigraphy and groundwater level information. A high-level review of the reports determined that silty clay till with trace sand and gravel is the prevalent soil layer within the Study Area.

However, as per the Ontario Geological Survey-Map 2400 (1974), soil stratigraphy varies significantly throughout the Village of Grand Bend. Soil classes rendered on soil type for the Village area are shown in **Table 2.5**. Further hydrogeotechnical investigations would be required at specific locations of proposed Low Impact Developments to capture seasonal high groundwater levels and percolation rates.

Table 2.5 Modified Horton Method Soil Parameters for Grand Bend Study Area

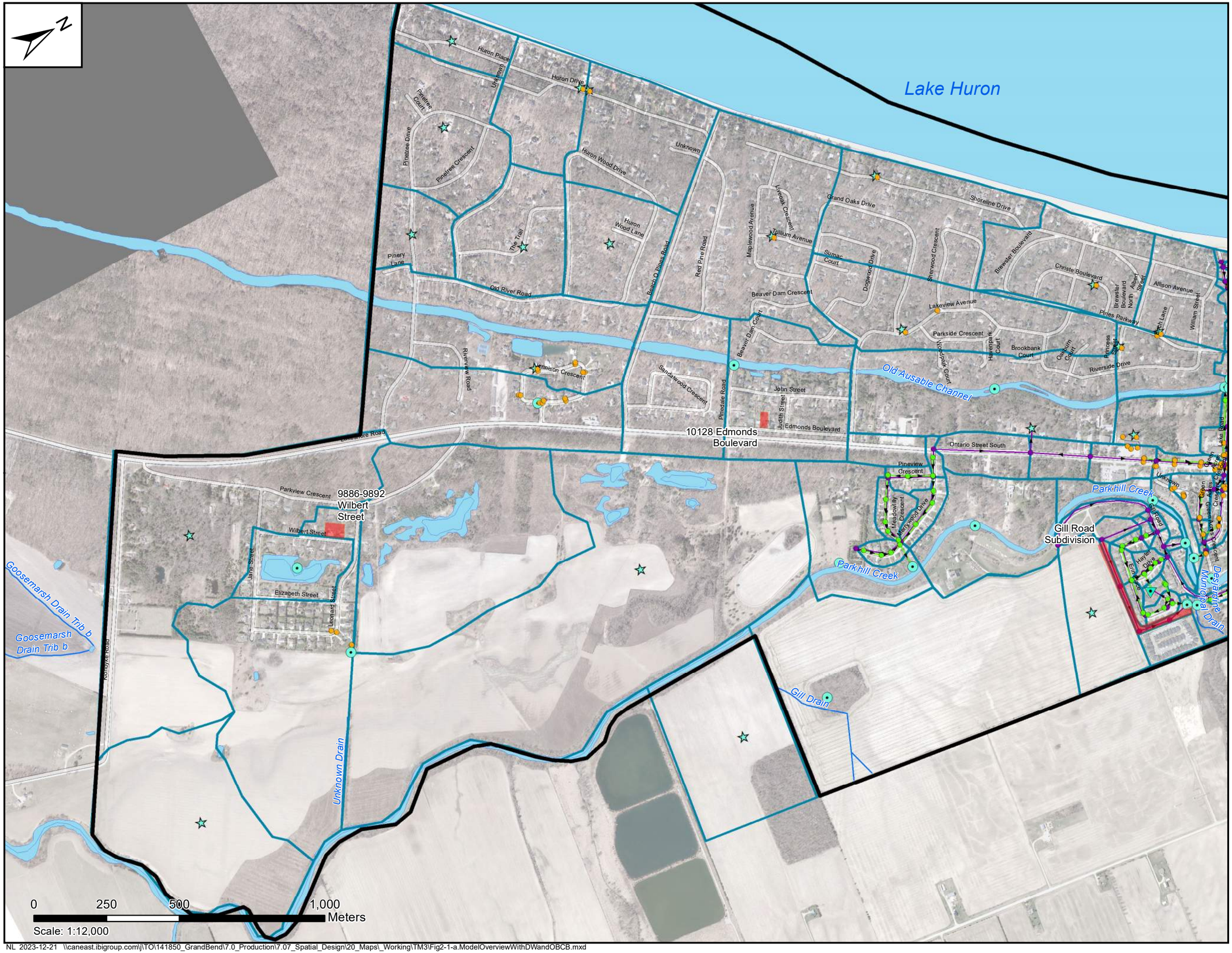
SOIL TEXTURE CLASS	LOCATION	HYDROLOGIC SOIL GROUP	MAX. INFILTRATION RATE (MM/HR)	MIN. INFILTRATION RATE (MM/HR)	DECAY CONSTANT	DRYING TIME
Sand, Gravel	Most Of Rural Area	A	114.3	11.43	4.14	7
Silty Clay	Urban Area	C	25.4	3.81	4.14	7

An underlying soils map can be found in **Appendix A**.

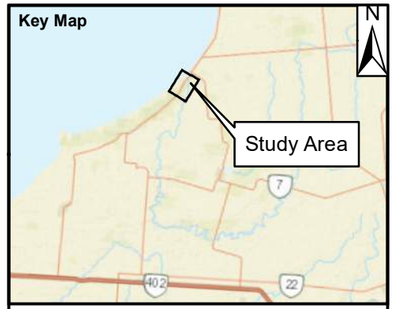
Future development involving an increase in impervious area can reduce the annual volume of water infiltrating into the ground. Consequently, water balance calculations should be completed, and methods provided to ensure pre-development infiltration targets.

2.3.5 Public Safety Concerns

Riverine flooding was not determined to be of concern in TM1. TM1 indicated that Ausable Bayfield Conservation Authority (ABCA) provided regulatory flood limits for Parkhill Creek and Walker Drain within the Study Area. Figure 2.4 in TM1 shows the Regulatory Floodplain limits within the Village of Grand Bend. Furthermore, there are some flood susceptible residential properties located within the regulation limits, specifically within the Gill Road and Rice Subdivisions near Desjardine, Walker and Simmons Drains.



Key Map



Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic
- Waterbodies
- Municipal Drain
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- SWM Pond
- Subcatchment
- Link from Minor to Major System at CB Locations
- Infiltration Trench

Minor System Hydrolic Components:

- Minor Junction (MH/CBs)
- Minor Conduit (Stormwater Pipes)

Major System Hydrolic Components:

- Minor Junction of Major System Flow Paths
- Major Conduit (Overland Flow Paths)
- Stormwater Dry Wells/Open Bottom CBs

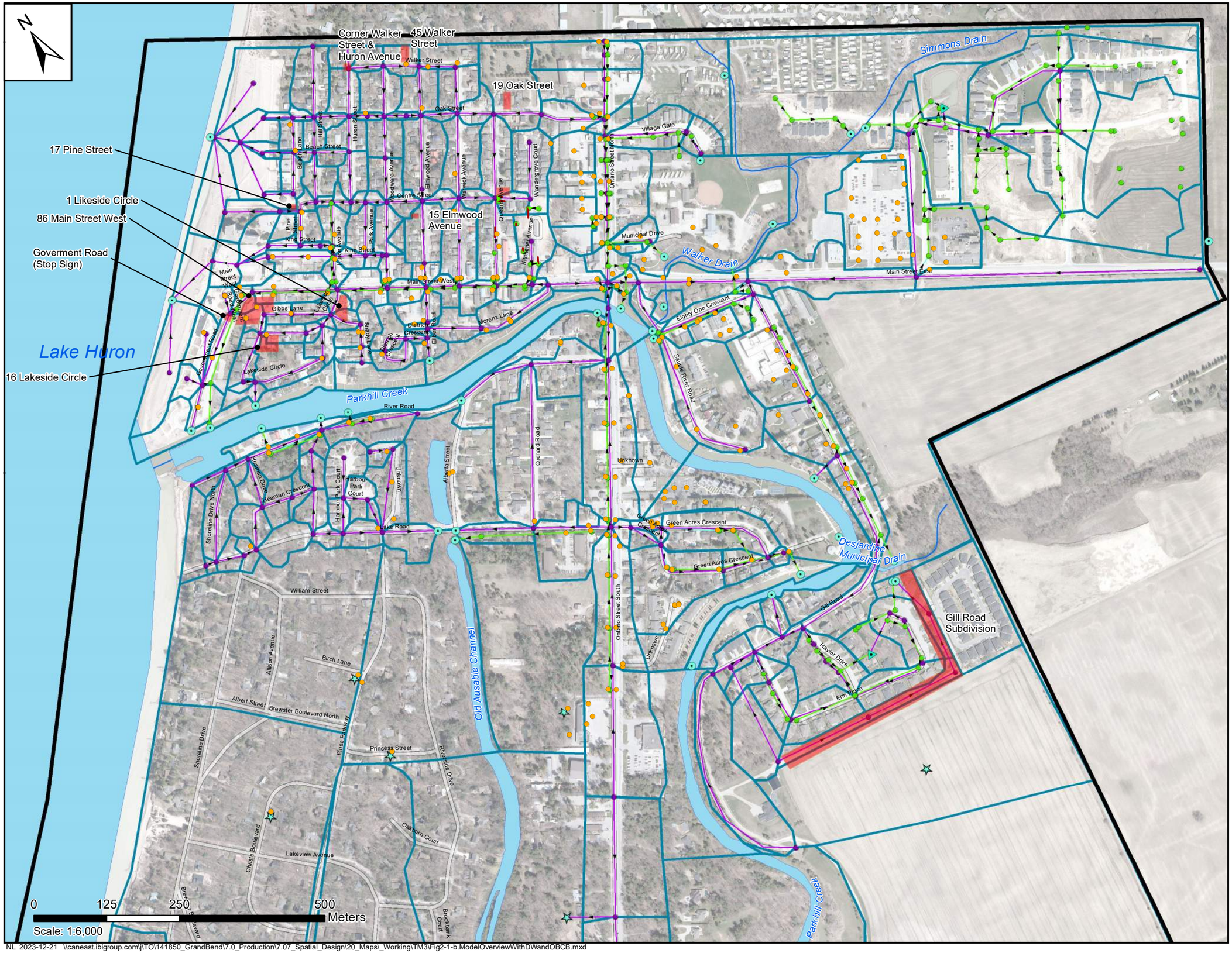
Figure 2-1-a Rural Baseline Model Overview with Dry Wells/Open Bottom CBs

Grand Bend Stormwater Management Master Plan

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NL 2023-12-21 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\TM3\Fig2-1-a.ModelOverviewWithDWandOBCB.mxd





Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic
- Waterbodies
- Municipal Drain
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Link from Minor to Major System at CB Locations
- Infiltration Trench
- Subcatchment

Minor System Hydrolic Components:

- Minor Junction (MH/CBs)
- Minor Conduit (Stormwater Pipes)

Major System Hydrolic Components:

- Minor Junction of Major System Flow Paths
- Major Conduit (Overland Flow Paths)
- Stormwater Dry Wells/Open Bottom CBs

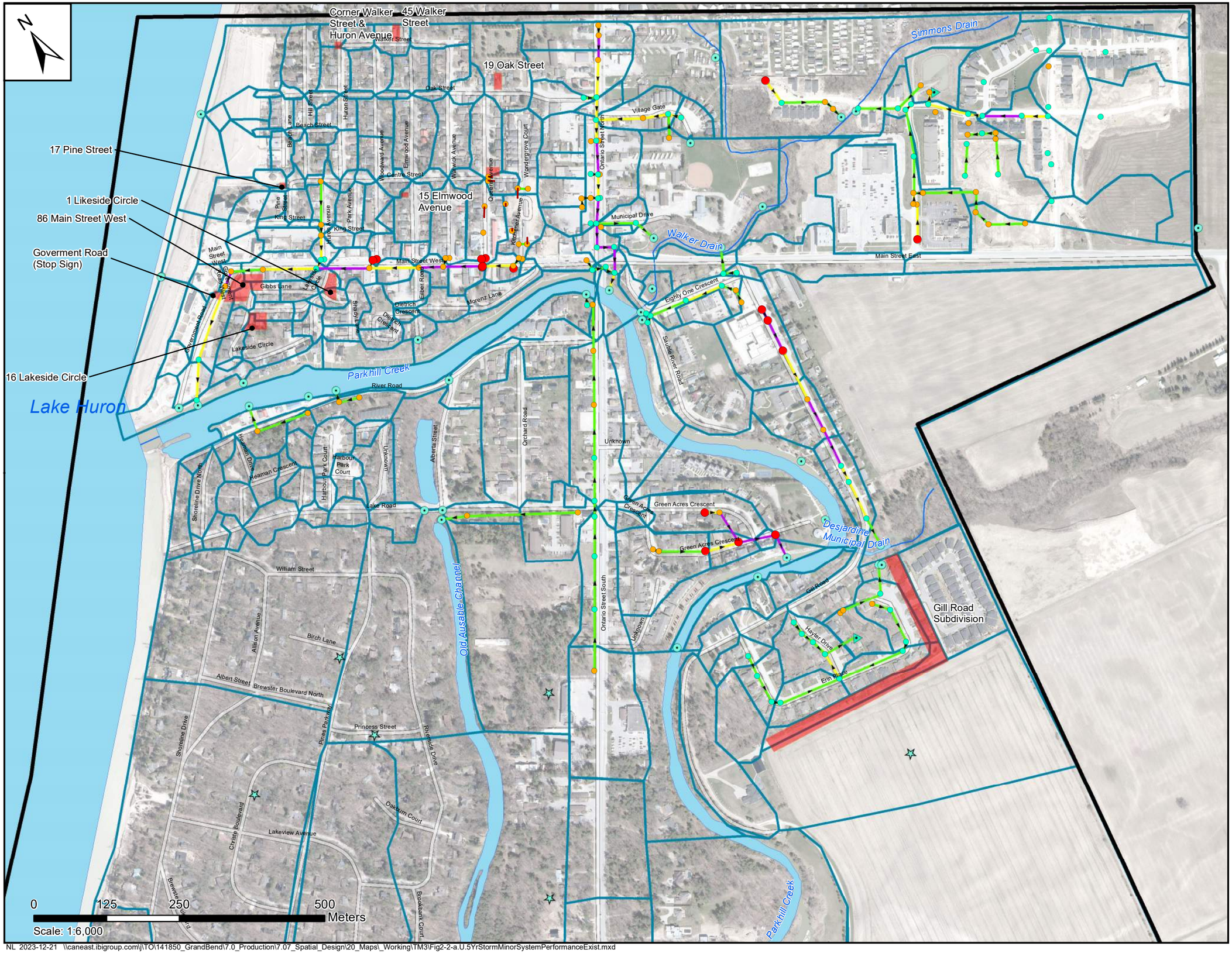
Figure 2-1-b Urban Baseline Model Overview with Dry Wells/Open Bottom CBs

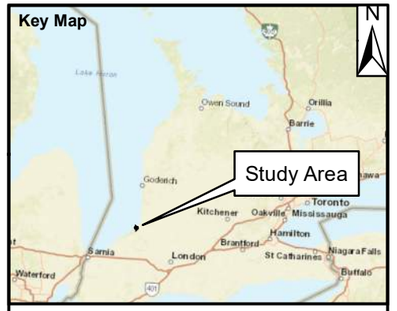
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Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic
- Waterbodies
- Municipal Drain
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Subcatchment

HGL Level During 5-Year Storm Event

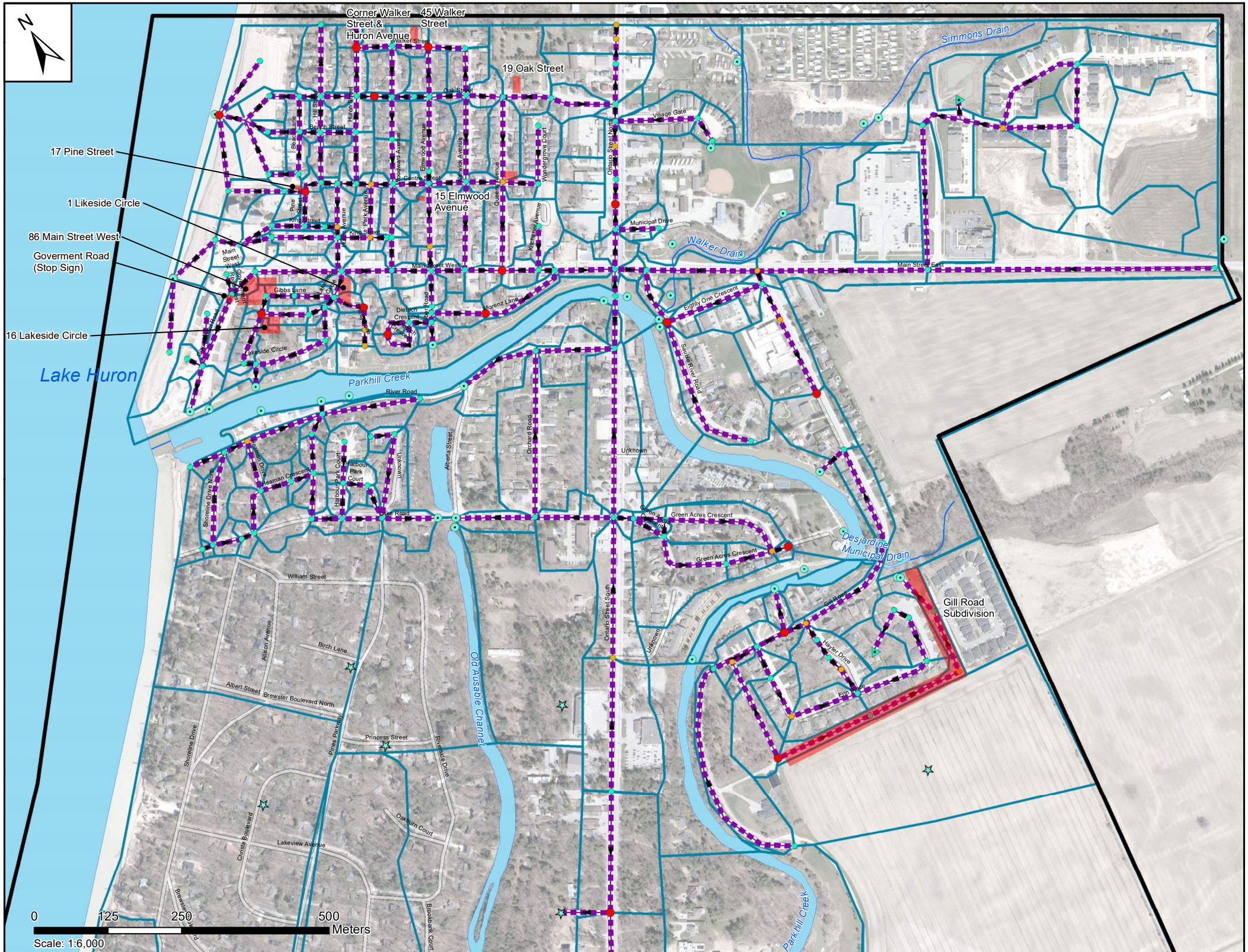
- Flow to Surface
- Freeboard < 1.8m
- Freeboard > 1.8m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)
- Infiltration Trench

Figure 2-2-a Urban 5-Year Storm Event Minor System Performance - Existing Condition

Grand Bend Stormwater Management Master Plan

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Legend

- Village of Grand Bend Municipal Boundaries
- Identified Problematic Area
- Waterbodies
- Municipal Drain
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Subcatchment Areas

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding <150mm
- Ponding between 150mm and 300mm
- Ponding > 300mm
- Major Conduit (Overland Flow Path)

Figure 2-2-b Urban 5-Year Storm Event Major System Performance - Existing Condition

Grand Bend Stormwater Management Master Plan

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45 Walker Street

Corner Walker Street & Huron Avenue

19 Oak Street

17 Pine Street

1 Likeside Circle

86 Main Street West

Goverment Road (Stop Sign)

16 Lakeside Circle

15 Elmwood Avenue

Lake Huron

Simmons Drain

Walker Drain

Parkhill Creek

Old Ausable Channel

Desjardine Municipal Drain

Gill Road Subdivision

Walker Street
Oak Street
Beach Lane
Hill Street
Huron Street
Beach Street
Woodward Avenue
Elmwood Avenue
Warwick Avenue
Centre Street
Queen Avenue
Wondergrove Court
Ontario Street North
Village Gate
Pine Street
King Street
Huron Avenue
Park Avenue
Kitchener Avenue
Municipal Drive
Main Street West
Main Street East
Main Street West
Gibbs Lane
Lake View Crescent
Government Road
Dietrich Crescent
Esther Road
Morenz Lane
Eighty One Crescent
Saulble River Road
Lakeside Circle
River Road
Shoreline Drive North
Heaman Drive
Heaman Crescent
Harbour Park Court
Unknown
Alberta Street
Orchard Road
Unknown
Lake Road
Green Acres Crescent
Green Acres Crescent
Green Acres Crescent
William Street
Allison Avenue
Birch Lane
Albert Street
Brewster Boulevard North
Shoreline Drive
Pines Parkway
Princess Street
Riverside Drive
Christie Boulevard
Lakeview Avenue
Oakburn Court
Brewster Boulevard South
Brookbank Court
Ontario Street South
Unknown
Gill Road
Hayter Drive
Erin Place
Parkhill Creek

0 125 250 500 Meters

Scale: 1:6,000

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Key Map



Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Identified Problematic Area
- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Subcatchment Areas

HGL Level During 100-Year Storm Event

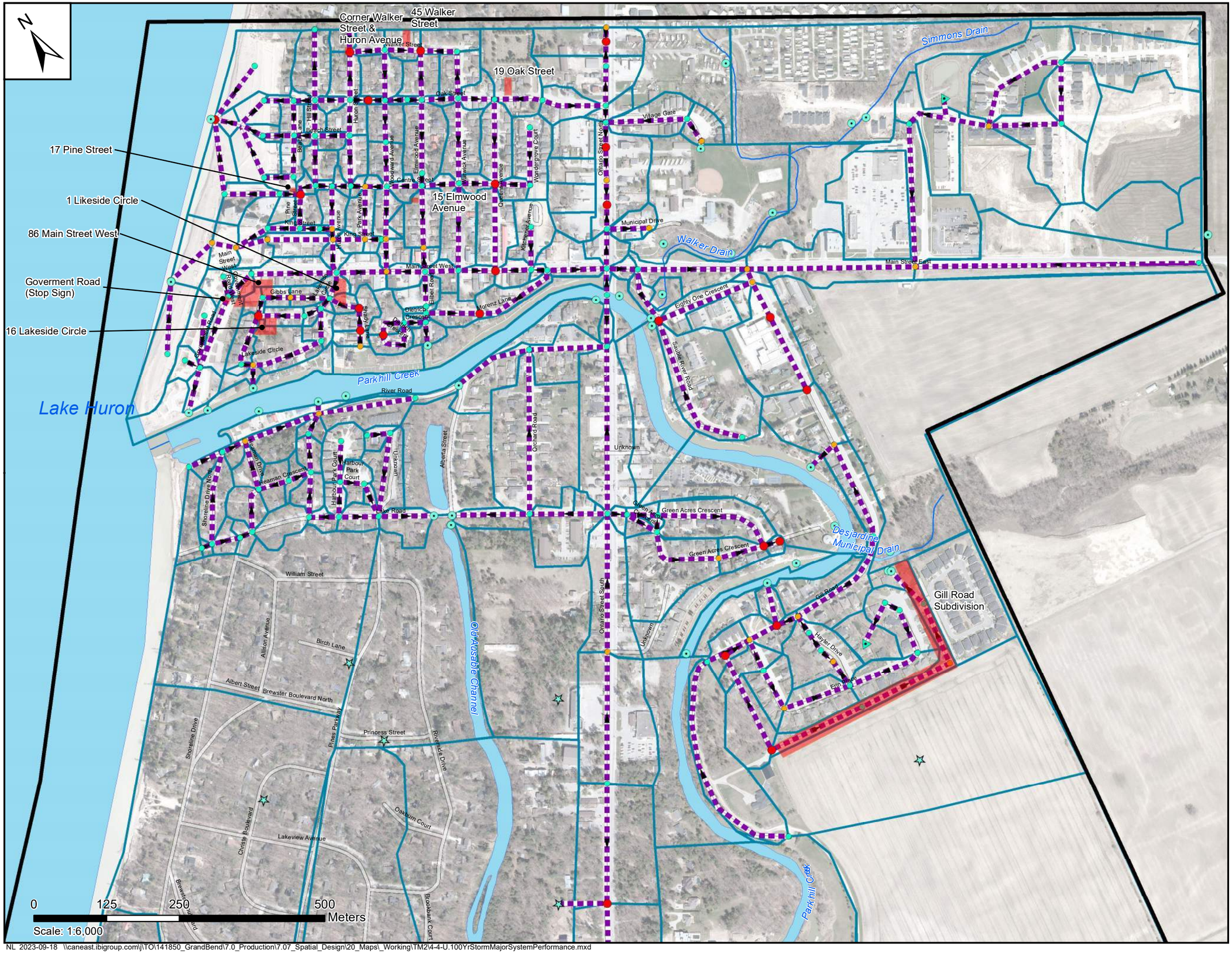
- Flow to Surface
- Freeboard < 1.8m
- Freeboard > 1.8m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)
- Infiltration Trench

Figure 2-2-c Urban 100-Year Storm Event Minor System Performance - Existing Condition

Grand Bend Stormwater Management Master Plan

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Project No.	Date:
141850	December 2023





Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Identified Problematic Area
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- SWM Pond
- Subcatchment Areas

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding <150mm
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- Major Conduit (Overland Flow Path)

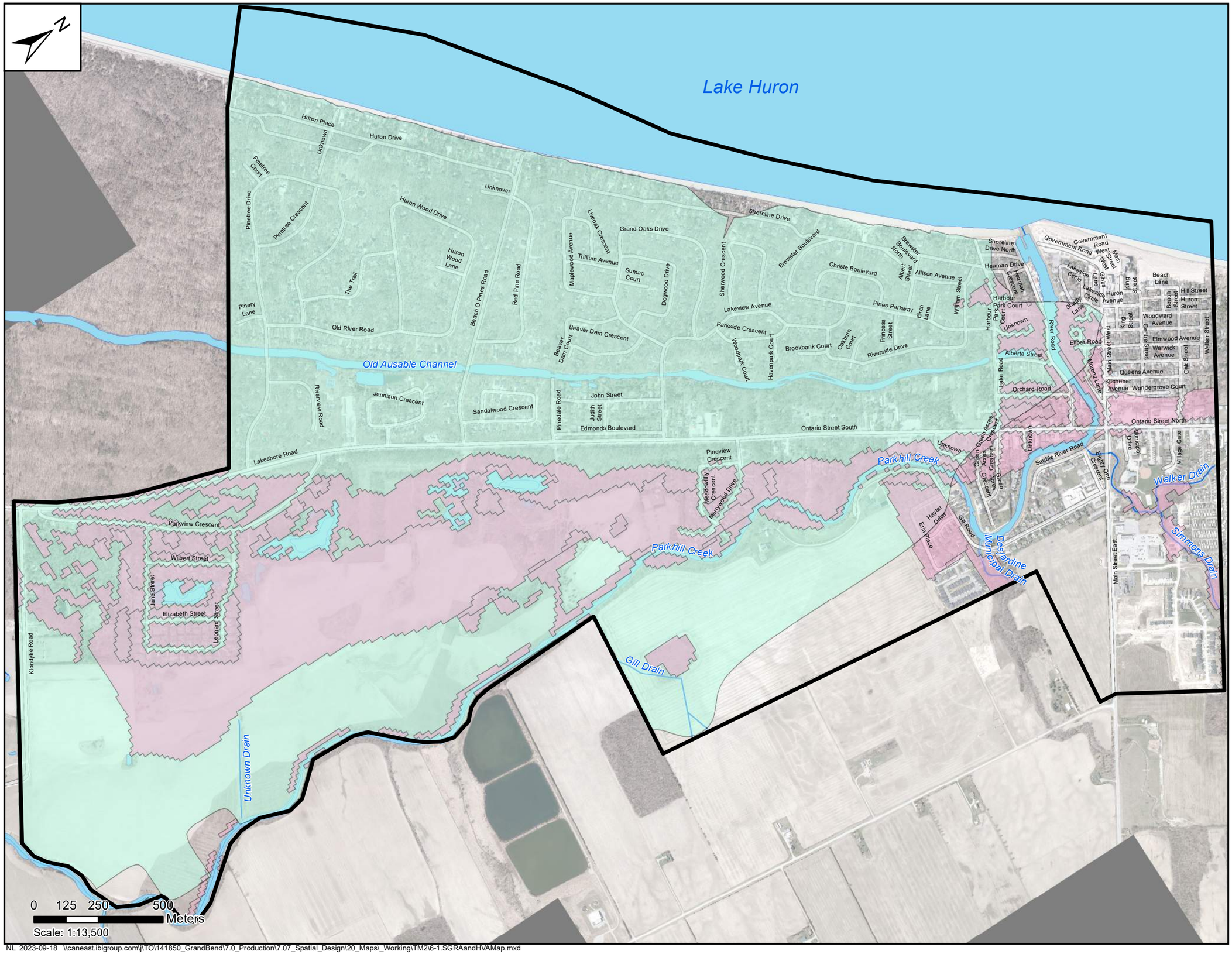
Figure 2-2-d Urban 100-Year Storm Event Major System Performance - Existing Condition

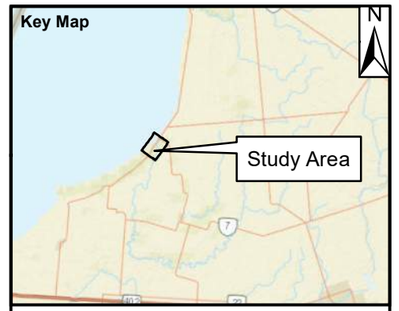
Grand Bend Stormwater Management Master Plan

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Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- SGRA
- HVA

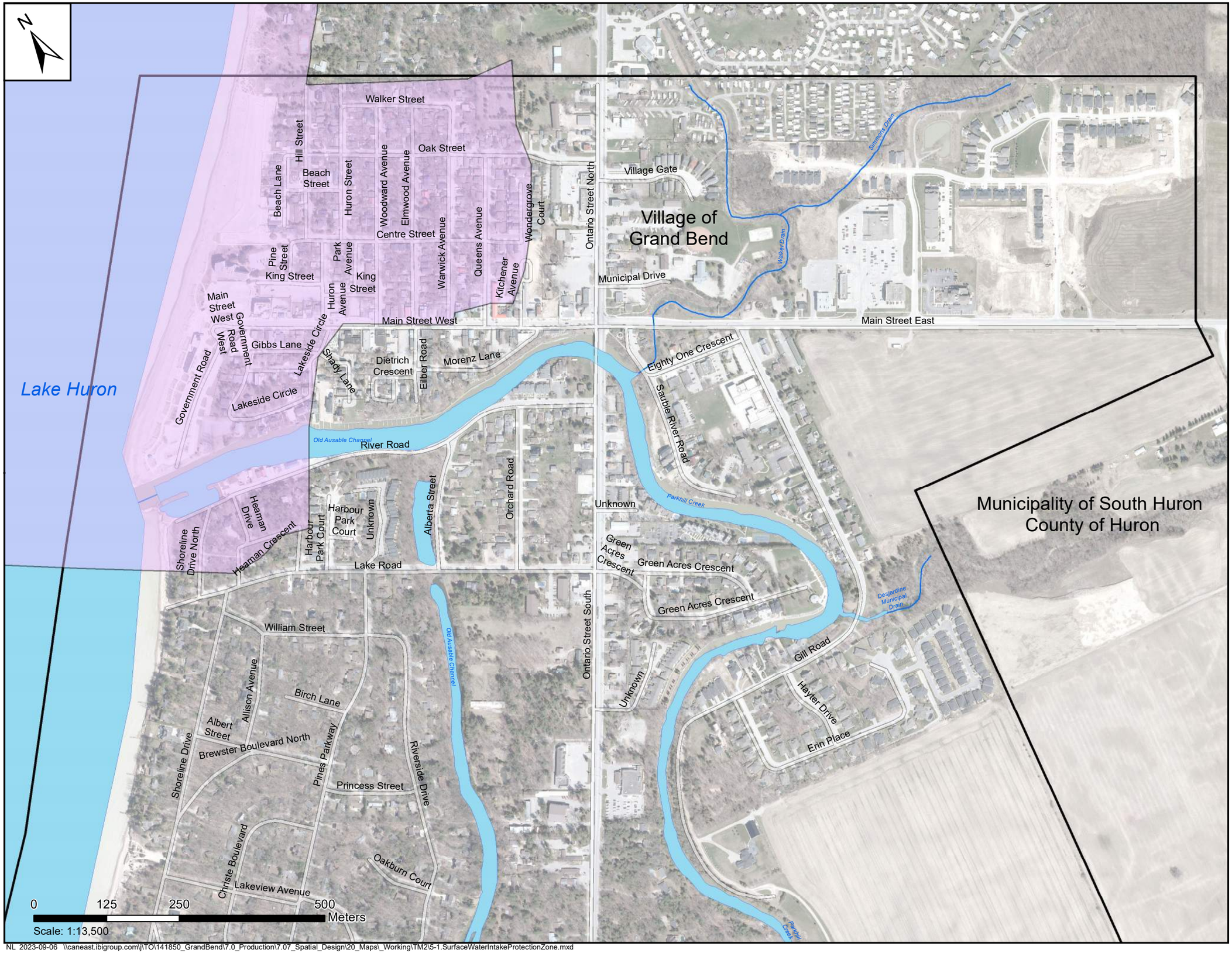
Figure 2-3
Significant Groundwater Recharge Area and Highly Vulnerable Aquifer Map

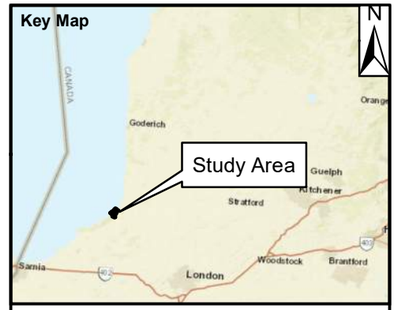
Grand Bend Stormwater Management Master Plan

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Project No.	Date:
141850	September 2023

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Legend

- Village of Grand Bend Municipal Boundaries
- 2-hour travel time limit

Figure 2-4
Surface Water Intake Protection Zone

Grand Bend Stormwater Management Master Plan

ARCADIS

Project No.	Date:
141850	September 2023

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3 Development of Long List of Alternatives

Several alternative solutions were generated for SWM measures for the existing and future land uses within the Village.

The approach for developing and evaluating alternatives is consistent with the requirements of the planning and design process for Master Planning projects described in the Municipal Class EA (Municipal Engineers Association, June 2000; amended 2007, 2011, 2023).

It involves reviewing Phase 1 work (i.e., Identification of the Problem) and undertaking Phase 2 (i.e., Establishing Existing Conditions, Identification of Long List of Alternatives, Development and Assessment of Alternative Management Strategies and Selection of a Preferred Strategy).

In addition, consultation with stakeholders is a necessary step in this process.

To identify the solution that best encompasses the study's principles, goals and objectives a long list of alternatives was generated. The alternatives consider both existing and future land uses within the Village.

3.1 Overview of Alternatives

The Ministry of Environment, Conservation and Parks (MECP) divides SWM measures into three broad categories:

1. Source/lot level controls
2. Conveyance controls
3. End of pipe controls

Generally, a preferred SWM strategy per the MECP is to provide an integrated treatment train approach to water management based on providing control at the lot level and in conveyance (to the extent feasible) followed by end-of-pipe controls. This combination of controls is typically the only means of meeting the multiple criteria for water balance, water quality, erosion control, and water quantity (flood control).

The reasoning behind that approach is to maximize the benefits from the combination of those elements, including:

- More effective SWM.
- Reduction in land area required to implement end-of-pipe solutions.
- Enhanced opportunities to integrate SWMPs effectively as amenities.
- Decreased total cost when land value is factored in.
- Increased level of public awareness and involvement in the implementation and management of SWM initiatives.

3.1.1 Source Controls

Currently, the MECP has not released a document for Low Impact Development planning and design. The standard typically used in Ontario is the Credit Valley Conservation (CVC) and Toronto Region Conservation Authority (TRCA) *Low Impact Development Stormwater Management Planning and Design Guide*, created as "a

tool to help developers, consultants, municipalities and landowners understand and implement sustainable stormwater planning and practices in the CVC and TRCA watersheds. The use of sustainable stormwater planning and practices will help ensure the continued health of the streams, rivers, lakes, fisheries and terrestrial habitats in our watersheds."

> *The guide is intended to provide engineers, ecologists and planners with up-to-date information and direction on landscape-based SWM planning and low impact development SWM practices such as rainwater harvesting, green roofs, bioretention, permeable pavement, soakaways and swales. The information contained in the guide will help practitioners adopt landscape-based SWM approaches, and will help select, design, construct and monitor more sustainable SWM practices.*

Although developed for use in the CVC and TRCA watersheds, the underlying principles have been adopted for use by engineers for applying LID in other jurisdictions.

The LID Manual notes that "Effective SWM strategies employ a treatment train approach that combines a suite of lot level, conveyance and end-of-pipe controls to treat runoff efficiently and effectively. At the present time, reliance on larger end-of-pipe detention pond facilities as the primary component of a SWM strategy is the norm. This compromises opportunities to implement low impact development practices that enhance the performance of SWM systems and provide ecological sustainability benefits."

For new development areas, potential opportunities to integrate SWMPs at the site level stage in the planning process include:

- Harvesting of rainwater from rooftops for non-potable uses (e.g., irrigation, toilet flushing) using rain barrels or cisterns.
- Installation of green roofs.
- Drainage of runoff from rooftops to pervious or depression storage areas.
- Integration of soakaways (e.g., infiltration trenches or chambers) below landscaped areas, parking areas, parks, sports fields, etc.
- Incorporation of bioretention areas, rain gardens, biofilters or constructed wetlands into the landscape design for the site.
- Use of permeable pavement in low and medium traffic areas.
- Incorporation of bioretention areas, vegetated filter strips, and swales to intercept and treat parking lot and road runoff.
- Incorporation of woodland restoration in upstream areas to reduce runoff rates.
- Integration of detention ponds and wetlands as large aesthetic and recreational features within the landscape.

For infill and redevelopment sites, application of LID SWM measures needs to consider context and the limits of both landscape and built form. See **Figure 3-1**. SWM opportunities that should be explored for infill and retrofit developments include:

- Rooftop storage
- Green roofs
- Rainwater harvesting
- Bioretention areas

- Biofilters
- Grassed swales
- Permeable pavement
- Rain gardens
- Stormwater planters and fountains
- Depression storage
- Soakaway pits
- Constructed wetlands
- Enhanced urban tree canopy.

Source controls are applied at the individual lot level, typically serving small drainage areas (approximately 2 hectares). Typically, they take the form of either storage or infiltration controls.



Source: Left – CWP; Right – Low Impact Development Center

Figure 3-1 Example of Inline and Offline Bioretention [2]

Storage controls are for the temporary detention of stormwater to attenuate peak flows to a desired level. They could include such mechanisms as:

- Roof storage – control flow roof drains and temporary detention storage on flat roofs.
- Parking lot storage – detention storage on top of parking lots, using an underground orifice control.
- Rear lot storage – using catchbasin restrictors to create temporary ponding in rear yards.
- Underground storage – consisting of either upsized pipes (used for detention instead of merely conveyance of flows) or specialized tank structures (like modified box culverts, or plastic storage units) in combination with an orifice control.

Given the high permeability of the underlying soils in the area, infiltration measures are an important option in achieving SWM criteria.

Infiltration controls are typically designed to provide for water balance opportunity; that is, offsetting the increase in impervious cover associated with urban development by providing a mechanism to infiltrate water back into the soil. Typical mechanisms include:

[2] Source: Low Impact Development LID SWM Guide

- Reduced grading to allow greater ponding of stormwater and natural infiltration.
- Directing roof leaders to rear yard ponding areas, soakaway pits, or to cisterns or rain barrels.
- Sump pumping foundation drains to rear yard ponding areas.
- Infiltration trenches.
- Grassed swales.
- Vegetated filter strips.
- Stream and valley corridor buffer strips.

The primary function of infiltration controls is to mitigate the impacts that urbanization normally has on the water balance (i.e., increased surface runoff, reduced soil moisture replenishment and groundwater recharge). Concentrated infiltration of stormwater collected from larger areas (e.g., infiltration basins, an end-of-pipe infiltration type control) will not match the characteristics of distributed infiltration which occurred under predevelopment conditions. The natural hydrologic cycle can be maintained to the greatest extent possible by lot level infiltration controls.

Infiltration technologies can achieve water quality enhancement; however, stormwater containing high concentrations of suspended solids will tend to clog these controls. Further, infiltration of contaminated water can impair groundwater quality. Therefore, these measures are ideally suited to the infiltration of relatively clear stormwater, such as stormwater from rooftops which contains only atmospheric contaminants (i.e., contaminants deposited on the rooftop by precipitation or dry fall) or foundation drainage.

3.1.2 Conveyance Controls

Conveyance controls are mechanisms like pervious pipes, grassed swales, or vegetated filter strips designed to provide for water balance (infiltration) or water quality benefits to tradition conveyance measures.

Above ground features like swales and strips are relatively easy to inspect and maintain, while pervious pipes require a greater investment of time and money, and may become clogged, resulting in reduced function.

ICDs can be used to ensure that storm flow into catchbasins is reduced and forced to be conveyed overland to a downstream system with capacity.

Conversely, the addition of inlets at various points can be effective in improving storm runoff capture.

3.1.3 End of Pipe Measures

Historically, end-of-pipe measures have been the predominant means of providing for water quality, water quantity, and erosion control. They typically take the form of SWM facilities which receive stormwater runoff from large areas via conveyance measures like sewers or ditches and discharge treated water to watercourses. Typical end of pipe measures include:

- Wet ponds
- Wetlands
- Dry ponds
- Infiltration basins

Except for infiltration basins, they may consist of any of the following components, alone or in combination:

- Permanent pool – a volume of stormwater that does not drain, designed to provide for settling and dilution of settlement (Quality Control).
- Extended detention – temporary (24-72 hour) storage of relatively small, frequent stormwater runoff volumes to reduce erosion in the receiving system (Erosion Control).
- Active storage – stormwater detention for larger, less frequent events to attenuate peak flows (Quantity Control).

Infiltration basins are designed without a traditional outlet, instead capturing, storing, and infiltrating stormwater into the ground, which replenishes the groundwater table, increases baseflow, decreases erosion, and eliminate peak flows (up to design storage volumes events).

4 Evaluation Categories and Criteria

A preferred SWM Strategy was developed by the synthesis of the inter-disciplinary inputs to the project, including computer modeling, social, cultural, and economic considerations. The approach in developing and evaluating the alternative is generally consistent with the Class EA planning/design process for Master Planning project.

Using the initial set of developed evaluation criteria, and incorporating public comments as appropriate, a net effects analysis is applied to the preliminary list of alternative solutions which involves the following steps:

- Identification of potential effects.
- Develop and apply mitigation/compensation/enhancement measures.
- Determine net effects after mitigation measures have been applied.

Except traditional SWM strategy such as conventional storm sewer systems, the Village would like to explore the opportunities for innovative approaches such as Low Impact Development (LID) and green infrastructure for lot level controls, conveyance controls and end of pipe facilities.

The comparative evaluation of the alternative solutions will be carried out using a systematic approach that fulfills the intent of the Class EA process. The evaluation process will be presented in the form of an evaluation matrix in which alternative is scored or ranked against the other alternatives, with respect to several criteria that fall into the following categories:

- Environmental criteria: These include potential impacts on natural terrestrial features and aquatic habitat and will include consideration of net change on hydrologic water balance and pollutant loadings to natural watercourses.
- Financial criteria: Includes initial capital cost including consideration of any need for property acquisition; expected life-cycle costs; and implications for future financing of centralized stormwater facilities that may serve more than one development property.
- Public safety and public acceptability: This category will address potential concerns regarding public safety and health; and how all proposed facilities may fit into existing or future built-up areas.
- Implementation: Includes consideration of how easily implementation can occur as new land development occurs; and how well the SWM plan integrates with current land-use planning and the development approval process.

Evaluation of the alternatives will be undertaken in consultation with the Project Team and the Village's Project. A list of possible criteria is presented in **Table 4.1**.

Table 4.1 Criteria for Evaluating Alternatives

TECHNICAL
Opportunity to reduce localized flooding
Opportunity to reduce peak flows to Lower Parkhill Creek
Opportunity to decrease erosion of watercourses
Opportunity to improve water quality
Opportunity to reduce phosphorus loading in Lower Parkhill Creek
Opportunity to mitigate changes in water balance

NATURAL HERITAGE FEATURES
Provisions of direct and indirect fish habitat
Potential to improve terrestrial habitat
Impacts to natural hazard features
SOCIAL ENVIRONMENT
Ability to improve public health and safety
Impacts to private property
Impacts to public property
CULTURAL ENVIRONMENT
Impacts to built and cultural heritage landscape
Impacts to archeological resources
ECONOMIC ENVIRONMENT
Capital costs
Operation and Maintenance costs
Risk Management
Impact on agricultural land use

The evaluation criteria were applied on an individual stormwater service area basis where the key implementations of the alternative SWM strategies could be effectively applied. The preferred alternatives for each settlement area are based on existing site constraints and the feasibility of implementing SWM improvements to each area. The preferred alternative strategy is outlined in **Section 5**.

The following matrix in **Table 4.2** evaluates the various SWM strategies outlined above.

Table 4.2 SWM Alternatives Evaluation

	EVALUATION CRITERIA	DO NOTHING	TRADITIONAL SWM STRATEGY	TRADITIONAL SWM WITH BMP	TRADITIONAL SWM W/ ICD	TRADITIONAL SWM W/ ICD & ADDITIONAL CBS
TECHNICAL	Opportunity to reduce localized flooding	0	2	1	2	2
	Opportunity to reduce peak flows to watercourse	0	2	1	2	2
	Opportunity to decrease erosion of watercourses	0	1	2	1	1
	Opportunity to improve water quality	0	0	1	0	0
	Opportunity to reduce phosphorus loading in watercourse	0	0	1	0	0
	Opportunity to mitigate changes in water balance	0	0	1	0	1
NATURAL HERITAGE FEATURES	Provisions of direct and indirect fish habitat	0	0	0	0	0
	Potential to improve terrestrial habitat	0	1	1	1	1
	Impacts to natural hazard features	0	0	0	0	0

	EVALUATION CRITERIA	DO NOTHING	TRADITIONAL SWM STRATEGY	TRADITIONAL SWM WITH BMP	TRADITIONAL SWM W/ ICD	TRADITIONAL SWM W/ ICD & ADDITIONAL CBS
SOCIAL ENVIRONMENT	Ability to improve public health and safety	0	1	1	1	1
	Impacts to private property	-1	1	1	1	1
	Impacts to public property	-1	1	1	1	1
CULTURAL ENVIRONMENT	Impacts to built and cultural heritage landscape	0	0	0	0	0
	Impacts to archeological resources	0	-1	-1	-1	-1
ECONOMIC ENVIRONMENT	Capital costs	0	-1	-1	-1	-1
	Operation and Maintenance costs	0	-1	-1	-1	-1
	Risk Management	0	0	0	0	0
	Impact on agricultural land use	0	0	0	0	0
	TOTAL SCORE	**-2**	**6**	**7**	**6**	**7**

The preferred SWM strategy will be comprised of several elements. These may include upgrade or replacement of existing storm pipes and culverts; erosion abatement projects; overland drainage improvements, construction of new storm pond facilities or other types of centralized SWM such as infiltration facilities; and recommendations regarding stormwater design practices within new developments to minimize stormwater volume at the source and achieve objectives for preserving existing local hydrology.

Each separate component of the preferred strategy is clearly defined, and the implementation sequence is identified in **Section 5**. We identify all projects that are to be the responsibility of the Village and identify what future development and infrastructure improvement will be in **Section 5**.

Class EA requirements may apply, and what the regulatory approval requirements are, for each component project. As noted in the RFP, for those projects identified as Class EA “Schedule B” projects, the Master Plan document will demonstrate that the Schedule B requirements have been fulfilled, as we will have followed Approach 2 in completing the Master Plan.

Details are included in Consolidated Linear Infrastructure – Environmental Compliance Approval for Lambton Shores Municipal Stormwater System (CLI-ECA) in **Appendix A** for reference.

The preferred strategy will include recommendations regarding existing municipal drainage infrastructure assets, to provide the Village with a prioritized list of needs.

4.1 Technical

4.1.1 Infiltration Limitations

The LID Manual notes various caveats for the use of infiltration-based measures and that source areas like roads are subject to vehicular traffic and application of sand and de-icing salt during winter, making them significant sources of such contaminants as sediment, de-icing salt constituents (e.g., sodium and chloride), petroleum hydrocarbons and heavy metals.

It is important that SWM plans be developed with consideration of the different types of runoff source areas that will be present, and recognition of source areas with low to moderate contamination potential that represent opportunities for rainwater harvesting, permeable pavement and other stormwater infiltration practices.

LID Manual Table 2.8.1 indicates that for low, medium, and high traffic roads, infiltration should only be used after pre-treatment where groundwater uses are limited, i.e., runoff should be treated with a sedimentation and/or filtration pre-treatment practice prior to infiltration.

4.1.1.1 Common Concerns

There are several common concerns associated with the use infiltration-based systems:

- **Risk of Groundwater Contamination**: Most pollutants in urban runoff are well retained by infiltration practices and soils and therefore, have a low to moderate potential for groundwater contamination (Pitt et al., 1999). Chloride and sodium from de-icing salts applied to roads and parking areas during winter are not well attenuated in soil and can easily travel to shallow groundwater. Infiltration of de-icing salt constituents is also known to increase the mobility of certain heavy metals in soil (e.g., lead, copper and cadmium), thereby raising the potential for elevated concentrations in underlying groundwater (Amrhein et al., 1992; Bauske and Goetz, 1993). However, very few studies that have sampled groundwater below infiltration facilities or roadside ditches receiving de-icing salt laden runoff have found concentrations of heavy metals that exceed drinking water standards (e.g., Howard and Beck, 1993; Granato et al., 1995). To minimize risk of groundwater contamination the following management approaches are recommended (Pitt et al., 1999; TRCA, 2009b).
    - Stormwater infiltration practices should not receive runoff from high traffic areas where large amounts of de-icing salts are applied (e.g., busy highways), nor from pollution hot spots (e.g., source areas where land uses or activities have the potential to generate highly contaminated runoff such as vehicle fueling, servicing or demolition areas, outdoor storage or handling areas for hazardous materials and some heavy industry sites).
    - Apply sedimentation pre-treatment practices (e.g., oil and grit separators) before infiltration of road or parking area runoff.
- **Risk of Soil Contamination**: Available evidence from monitoring studies indicates that small, distributed stormwater infiltration practices do not contaminate underlying soils, even after 10 years of operation (TRCA, 2008).
- **Wellhead Protection**: Facilities receiving road or parking lot runoff should not be located within two (2) year time-of-travel wellhead protection areas.

- **Water Table**: The bottom of the facility should be vertically separated by one (1) meter from the seasonally high-water table or top of bedrock elevation.

Based on the forgoing, it is important to establish certain conditions.

- **Risk of Groundwater Contamination**: The proposed road would have chloride and sodium from de-icing salts applied roads.
  - Stormwater infiltration practices should not receive runoff from high traffic areas where large amounts of de-icing salts are applied (e.g., busy highways), nor from pollution hot spots (e.g., source areas where land uses or activities have the potential to generate highly contaminated runoff such as vehicle fueling, servicing or demolition areas, outdoor storage or handling areas for hazardous materials and some heavy industry sites).
  - Apply sedimentation pre-treatment practices (e.g., oil and grit separators) before infiltration of road runoff.
- **Wellhead Protection**: Wellhead Protection Areas are areas on the land around a municipal well, the size of which is determined by how quickly water travels underground to the well, measured in years. For source protection planning, the *Clean Water Act*, 2006 required that a standard 100-metre radius circle be provided around each municipal well; this is called WHPA-A. WHPA-B represents the 2-year time of travel. Per the SPP, the Village of Grand Bend has no Wellhead Protection Areas.

Table 4.3 LID Feasibility Based on Drainage Source

CONCERN	FEASIBLE (Y/N)	NOTES
Significant Source of Contaminants	Y*	Requires pre-treatment/filtration to avoid contamination
Wellhead Protection Zone	Y	Not in WPZ
Water Table	?	Unknown; must establish Seasonal High Groundwater level
Soils	?	Unknown; must establish soil type suitable for infiltration and completed percolation tests.

*With considerations

Pre-Treatment

Key to any infiltration measure is pre-treatment. Pre-treatment prevents premature clogging of bioretention facilities by capturing coarse sediment particles before they reach the filter bed. In some cases, where the drainage areas produce little sediment, such as rooftops, bioretention can function effectively without pre-treatment (Heasom et al. 2006). A two-cell design that incorporates a forebay is recommended for bioretention with the available space and high sediment load drainage areas.

The following pre-treatment measure is generally applicable to bioretention measures:

- Gravel diaphragm (sheet flow): A small trench filled with pea gravel, which is perpendicular to the flow path between the edge of the pavement and the bioretention practice will promote settling out of sediment. It also acts as a level spreader, maintaining sheet flow into the facility. If the contributing drainage area is steep, then larger stone should be used in the diaphragm. A drop of 50-150mm into the gravel diaphragm can be used to dissipate energy and promote settling.

Permeable Pavement

In most permeable pavement designs, the pavement bedding layer acts as pre-treatment to the stone reservoir below. Periodic vacuum sweeping and preventative measures like not storing snow or other materials on the pavement are critical to prevent clogging. An optional pre-treatment element can be a pea gravel choking layer above the coarse gravel storage reservoir.

4.2 Natural Heritage

With the exception of the “Do Nothing” option, the SWM strategies above have the potential to improve natural terrestrial habitat and will include consideration of net change on hydrologic water balance and pollutant loadings to natural watercourses. Schedules A1 and C of the Official Plan identify areas of significant wetlands, general regulation areas, significant woodlots, intake protection zones (IPZ), highly vulnerable aquifers (HZA), and significant groundwater recharge areas (SGRA) within the Village of Grand Bend. The natural heritage features are mainly south of Lake Road and alongside the watercourses. Meanwhile, almost the entire Study Area is considered an HVA and there are large SGRAs in the Downtown area and west of Lakeshore Road.

4.3 Social and Cultural Environment

Stormwater management is crucial in protecting public safety and health, and works to reduce flood risks, control erosion and maintain water quality in local natural waterways. Except for the “Do Nothing” option, the SWM strategies above will address potential concerns regarding public safety and health; and positively impact the private and public properties.

4.4 Economic Environment

The solution development approach for the project focuses on the use of low-cost, short-term solutions such as inlet controls. In areas where an easy short-term solution is not feasible, and that larger scale infrastructure improvements may be required. Costly, long-term opportunities focus primarily on initiatives currently planned by the Village, including upgrades to storm sewer and underground storage, along with some high-level opportunities that can be looked at in further detail. High level cost estimates have been proposed and shown in **Table 6.2** in **Section 6.3**.

5 Evaluation of Alternatives in PCSWMM

Several alternative solutions were generated for SWM measures for the existing and future land uses within the Village and were assessed in the PCSWMM model. The preferred strategy for the Village is illustrated in **Figure 5-1**.

The approach for developing and evaluating alternatives is consistent with the requirements of the planning and design process for Master Planning projects described in the Municipal Class EA (Municipal Engineers Association, June 2000; amended 2007, 2011, 2023).

It involves undertaking Phase 2, i.e. Establishing Existing Conditions, Identification of Long List of Alternatives, Development and Assessment of Alternative Management Strategies and Selection of a Preferred Strategy.

In addition, consultation with stakeholders is a necessary step in this process. As such, PIC1 was held July 20, 2023. A second PIC will be held after the completion of TM3.

5.1 Identification of Alternative Solutions

To identify the solution that best encompasses the study's principles, goals and objectives a long list of alternatives was generated. The alternatives consider both existing and future land uses within the Village.

The development of Alternative SWM Strategies is necessary to determine the effectiveness of each strategy with respect to protecting, enhancing and restoring the natural resources of the watersheds located within the Village under existing and planned land use changes.

For the purposes of the SWMMP, a SWM Strategy was defined as a set of BMPs which, when implemented collectively, will attempt to address impacts associated with change in land uses within the watersheds. The land uses under consideration include existing urban and rural land uses and proposed development within the settlement areas.

The assessment was undertaken using results from the modelling as well as considering various factors such as social, economic and environmental criteria which are defined to further develop specific components of the Alternative Strategies. In addition, the assessment will look to find an alternative which minimizes, to the extent possible, the impact on the community, natural environment and the economy.

The approach used for developing and evaluating alternatives is, where appropriate, consistent with the planning and design process for Master Planning projects as described in the Class EA document. The approach has been used for measures which are located outside proposed development areas (i.e., stream restoration works, stormwater pond retrofit works).

We have identified the applicable EA Schedules for each activity and provided a summary table of general Schedule listings based on the Appendix 1 Table of Municipal Class Environmental Assessment (March 2023) in **Table 5.1**.

Table 5.1 General EA Schedule Listings Summary Table

ACTIVITY	EXEMPT (FORMERLY A/A+)	B	C
Stormwater Management	**A11** Establish new or replace or expand existing stormwater detention / retention ponds or tanks and appurtenances including outfall to receiving water body provided all such facilities are in either an existing utility corridor or an existing road allowance where no additional property is required. (NOTE – Utility corridors are not always linear, therefore expansion of a stormwater management facility is a Schedule A activity provided no additional property is required.) **A17** Construction of stormwater management facilities which are required as a condition of approval on a consent, site plan, plan of subdivision or condominium which will come into effect under the *Planning Act* prior to the construction of the facility.	**B2** Establish new stormwater retention / detention ponds and appurtenances or infiltration systems including outfall to receiving water body where additional property is required. **B3** Enlarge stormwater retention / detention ponds / tanks or sanitary or combined sewage detention tanks by addition or replacement, at substantially the same location where additional property is required. **B21** Construct a stormwater control demonstration or pilot facility for the purpose of assessing new technology or procedures. **B24** Establish stormwater infiltration system for groundwater management.	**C7** Construct new or modify, retrofit, or improve existing retention / detention facility or infiltration system for the purpose of stormwater quality control where chemical or biological treatment or disinfection is included, including outfall to receiving water body.
Storm Sewer System	**B19** Normal or emergency operational activities (see Glossary Definition for Operation). Such activities may include, but are not limited to, the following: • Installation of new service connections, catch basins and appurtenances from existing sewers. **B22a** Establish, extend, or enlarge a sewage collection system and all necessary works to connect the system to an existing sewage outlet, where it is required as a condition of approval on a site plan, consent plan of subdivision or plan of condominium which will come into effect under the *Planning Act* prior to the construction of the collection system.		
Water Courses	**A12** Replace traditional materials in an existing watercourse or in slope stability works with material of equal or better properties, at substantially the same location and for the same purpose. **A13** Reconstruct an existing dam weir at the same location and for the same purpose, use and capacity. **A16** Roadside ditches, culverts and other such incidental stormwater works constructed solely for the purpose of servicing municipal road works.	**B14** Water crossing by a new or replacement sewage facility except for the use of Trenchless Technology for water crossings. **B15** Construct berms along a watercourse for purposes of flood control in areas subject to damage by flooding. **B16** Modify existing water crossings for the purposes of flood control. **B17** Works undertaken in a watercourse for the purposes of flood control or erosion control, which may include: • bank or slope regrading • deepening the watercourse • relocation,	**C8** Construction of a diversion channel or sewer for the purpose of diverting flows from one watercourse to another. **C9** Construct new shoreline works, such as off-shore breakwaters, shore-connected breakwaters, groynes and sea walls. **C10** Construct a new dam or weir in a watercourse.

ACTIVITY	EXEMPT (FORMERLY A/A+)	B	C
		realignment or channelization of watercourse • revetment including soil bio-engineering techniques • reconstruction of a weir or dam. **B18** Construction of a spillway facilities at existing outfalls for erosion or sedimentation control. **B19** Construct a fishway or fish ladder in a natural watercourse, expressly for the purpose of providing a fishway. **B20** Enclose a watercourse in a storm sewer. **B22** Reconstruct existing weir or dam at the same location where the purpose, use and capacity are changed. **B23** Removal of an existing weir or dam.	

5.2 Overview of Alternatives

5.2.1 List of Alternatives

A total of five (5) Alternative Management Strategies have been brought forward for assessment. The five strategies are defined as:

1. Do Nothing
2. Traditional SWM Strategy
3. Traditional SWM with ICD controls
4. Traditional SWM with Additional Catch Basins and ICD controls Strategy
5. Traditional SWM with BMP Implementation Strategy

5.2.2 Restoration Measures

These would consist of direct restoration/enhancement of existing habitats in the Village as opposed to improvements to SWM Facilities (SWMFs). Examples include stream restoration, aquatic/terrestrial habitat enhancement.

5.3 Development of Alternative SWM Strategies

The Village is comprised of agriculture, urban growth, industrial, residential, and open space. Most notably, the Lower Parkhill Creek, their tributaries and associated riparian habitat fall within the Study Area. There are also areas of wetlands, woodlands, and aquatic features.

Results from the Existing Conditions as assessed in **Section 2.2** indicate the existing environmental conditions provide opportunity of the development and implication of alternative SWM strategies. SWM Strategy Alternatives are assessed in **Table 5.2**.

Table 5.2 SWM Strategy Alternatives Assessment

PRELIMINARY CRITERIA	SWM STRATEGY ALTERNATIVES				
	DO NOTHING	TRADITIONAL	TRAD W/ BMPS	TRAD W/ ICDS	TRAD. W/ ICDS & ADDITIONAL CBS
Land Uses Where Strategy is to be Applied	None	Proposed Development Areas and Existing Urban Areas	Proposed Development Areas and Existing Urban Areas	Proposed Development Areas and Existing Urban Areas	Proposed Development and Existing Rural Areas
Flows localized flooding	Increase in Runoff Rates and Volumes	Reduction in Peak Flow Rate and surface ponding	Reduction in Flow Volume; Minor Reduction in Flow Rate	Reduction in HGL in Urban Areas	Reduction in HGL and surface ponding in Urban Areas
Phosphorus Loading	Current Condition	Current Condition	Reduction	Current Condition	Current Condition
Infiltration	Current Condition	Reduction	Increase	Current Condition	Current Condition
Erosion Potential	Current Condition	Increase	Reduction	Current Condition	Current Condition

Below has been developed to summarize the potential effects of each alternative with respect to flow volume, phosphorus loadings, infiltration reduction and erosion potential. These impacts would occur within the Village because of the proposed land use change. **Table 5.3** illustrates the assessment of the long list of SWM Strategies.

5.3.1 Do Nothing

The “Do Nothing” alternative would involve leaving the Village as is. No SWM works are carried out in any of the proposed development or redevelopment areas. An assessment to the impacts associated with the implementation of this strategy is required as part of undertaking a Municipal Class Environmental Assessment Study.

As seen in, this strategy would result in higher flow volumes, increased flooding, increased production of phosphorus, increased erosion potential, and infiltration reduction.

5.3.2 Traditional SWM Strategy

The Traditional SWM Strategy is the implementation of SWM in proposed development or redevelopment areas. The SWM works would consist of the construction of SWM ponds for quantity, quality and erosion control as per MECP guidelines demonstrate. Proposed developments would be serviced by conventional storm sewer systems and limited source control measures would be implemented such as downspout disconnection. This alternative would result in higher flow volumes, an increase in erosion potential, and an increase in production of phosphorus and infiltration reduction.

5.3.3 Traditional SWM with ICD controls Strategy

This strategy is consistent with the Traditional SWM Strategy in that conventional SWM strategies would be implemented within proposed development or redevelopment areas. In addition to traditional SWM, low-cost, short-term solutions such as inlet controls measures will be implemented in existing urban areas.

ICDs are a low-cost, short-term benefit to most properties in the area, with respect to improving the level of service in reducing the risk of basement flooding.

5.3.4 Traditional SWM with Additional Catch Basins and ICD Controls Strategy

This strategy is consistent with the Traditional SWM Strategy in that conventional SWM strategies would be implemented within proposed development or redevelopment areas. In addition to traditional SWM, additional catch basins are recommended on some roadways to prevent surface flooding at low lying properties in existing urban areas.

Also, additional catch basins at low points allow for ICDs to be installed upstream without worsening surface flooding and ponding at low points. Therefore, additional catch basins can be installed in combination with ICDs and minor upgrades to the storm sewer.

5.3.5 Traditional SWM with BMP Implementation Strategy

This Strategy is consistent with the Traditional SWM Strategy as it will apply to proposed development and redevelopment areas. A variety of BMP source controls, conveyance controls and end-of-pipe measures will be

implemented for all proposed areas of development. Alternative developments (i.e., LEED certified developments, Low Impact Developments) would also be considered.

A series of assumptions for the types of Best Management Practices to be implemented with this Strategy were made to include this Strategy as an Alternative. Low-Impact Development (LID) features are often used to help reduce runoff in areas where have no sufficient outlets. One of the most impactful ways to reduce runoff is by routing runoff from hard surfaces to pervious areas to allow for infiltration. The locations and size of LID measures to be implemented are further explained in **Section 5.5**. Based on the foregoing, this Section evaluates the long list of LID Options to determine their applicability to the goal of retaining infiltration. Refer to **Table 5.3**.

Table 5.3 Evaluation of LID Options

LID OPTION	RETENTION CAPABILITY (Y/N)	SUITABLE FOR ROW (Y/N)	SCORE
Soakaways	Y	Y	**Y**
Bioretention	Y	Y	**Y**
Vegetated Filter Strip	Y	N	N
Permeable Pavement	Y	Roadway Only	Possible[2]
Enhanced Grass Swales	Y	N[1]	N
Dry Swales	Y	N[1]	N
Perforated Pipe Systems	Y	N	Want to avoid building pipe system
Urban Tree/Boxes	Y	Y	**Y**

1 urban cross section
2 if acceptable to Village as a suitable method, physical constraints (infiltration, etc.)

Based on the foregoing, the potential infiltration measures for roadways are:

- Soakaways
- Bioretention
- Permeable Pavement.

The bioretention/infiltration facilities modelled using the PCSWMM LID tools. The characteristics of the bioretention facilities are noted in **Table 5.4**.

Table 5.4 LID Characteristic

PARAMETER	PCSWMM LABEL	
	BIORETENTION	SOAKAWAYS
Berm height (mm)	200	200
Vegetative Cover (fraction)	0.05	0.05
Surface slope (percent)	0.5	0.5
Soil Thickness (mm)	400	/
Porosity (volume fraction)	0.5	/
Wilting point (volume fraction)	0.1	/
Soil Conductivity (mm/hr)	25.4	/
Conductivity slope	10	/
Suction Head (mm)	120	/
Storage Height (mm)	200	200
Storage Void Ratio (voids / solids)	0.75	0.75

PARAMETER	PCSWMM LABEL	
	BIORETENTION	SOAKAWAYS
Seepage Rate (mm/hr)	0.15	0.15
Storage Clogging Factor	0	0
Drain Coefficient (mm/hr)	/	25.4
Drain exponent	/	0.5
Drain Offset Height (mm)	/	6

5.4 Proposed Model Development

Following completion of the baseline model, the proposed stormwater service drainage areas by delineating Study Areas with future land use were used to assess possible opportunities and constraints. The assessment of problem areas and development of solutions was facilitated by a PCSWMM dual-drainage model of the stormwater system under post-development conditions.

5.4.1 Future Land Development

Post-development scenario was created based on the future land development and preferred SWM alternatives were assessed under the proposed condition. As per the discussions with the Municipality staff and reviewing of the subdivision reports, only one current development (Rice Subdivision) on Main Street East is proposed within the Study Area. Based on the design reports and drawings, the subdivision provides on-site SWM controls and will not adversely impact the downstream receiving system. The post development of Rice Subdivision has been built in the PCSWMM model and proposed storm drainage system was reflected in the drainage maps.

5.4.2 Climate Change

The future scenario also considers the effects of Climate Change on IDF curves. A Climate Change Scenario, created by using the 100-year storm event scaled up by approximately 20%. Updated IDF formula parameters were generated from time/intensity pairs using Visual OTTHYMO model in TM

2. Updated IDF values for Climate Change Scenario were applied to the proposed condition model for the development of alternative SWM solutions. The impact of increased IDF values on the function of existing and proposed SWMFs for quantity control was reflected in the PCSWMM model results.

Same as the baseline model, the proposed condition model was run with two (2) rainfall events to assess the performance of the storm drainage system. The performance runs include:

- 5-Year 24-hour Climate change Chicago Design Storm Event
- 100-Year 24-hour Climate change Chicago Design Storm Event.

System performance mapping has been completed for the above storm events and shown in the **Figure 5-2** to **Figure 5-5**.

5.5 Preferred Alternative

The objective of this assessment is to study flood vulnerable areas to identify short-term and long-term infrastructure improvements. Following the completion of the baseline model and assessment of the results, potential solutions to reduce flooding in the Study Area were developed based on different flooding conditions and service types.

1. In areas where the sewer system is surcharged in a 5-year storm, and significant surface flooding occurs in the major system, there is no sufficient pipe capacity and pipes will need to be upgraded.
2. In areas where the sewer system is surcharged but no significant flooding occurs in the major system during 100-year storm, ICDs can be applied to reduce the HGL within the sewers.
3. Additional catch basins or curb inlets were applied in all appropriate locations along roadways that experience significant ponding resulting in surface flooding during a 100-year storm.
4. In residential areas where there is no sewer system, installation of a storm sewer system will benefit several properties with a history of flooding.

The target is to avoid significant sewer surcharging during a 5-year storm and reduce the HGL and significant surface flooding during a 100-yr storm. Therefore, solution development depends primarily on the depth of ponding in the major system and the minor system freeboard relative to the basement slab since there are interactions between the major and minor system particularly where sewers surcharge to the surface.

The solution development approach for the project focuses on the use of low-cost, short-term solutions such as inlet controls. Also provided are some high-level long-term opportunities that can be considered but will require more investment in larger sewer upgrades.

The following presents the procedure and considerations for the flooding areas:

1. The combined approach of reviewing both the minor and major system LoS allowed for a better understanding of the interaction between the two systems.
2. The LoS in the minor system was reviewed to determine if ICDs resulted in improvements to the minor system performance. An improvement is classified as any increase in LoS (5-year). Small improvements to the available freeboard without a change in LoS were deemed to be too small to improve flooding conditions.
3. The LoS in the major system was reviewed for any changes due to the application of ICDs. Areas were noted where the major system LoS decreased as these areas are at a higher risk of surface flooding.
4. The maximum ponding on roadways was also reviewed to ensure any increased ponding did not impact road access in large storm events.
5. At low points with excess ponding or areas where there was a reduction in the major system LoS, additional catch basins or curb inlets were applied until the depth in the major system was similar to the existing conditions to limit impact to the major system LoS.
6. Minor infrastructure improvements like upgrades to a few segments of a storm sewer were also considered. These recommendations were primarily assessed for areas where major system ponding was directed to a low point with no other outlet in order to capture more flow.
7. Consider installing proposed sewer system within the no sewer residential areas that have a history of flooding for a long-term development.
8. LID measures are recommended in areas with good infiltration to provide reduction in flow volume.
9. The final recommendations for the problematic areas considered the overall improvements to the minor system without any negative impacts to the major system.

The following section presents the findings and detailed recommendations for the Study Area. The Study Area was subdivided into five (5) urban flooding areas and the large rural area based on general overland and minor system drainage focusing on locations with identified flooding issues. In order to provide a level of protection for the homes within the area, solution development will consider both the minor system hydraulic grade line and the depth of ponding in the major system. Specific methodologies for solution development varied based on the flooding conditions and servicing type present throughout the Study Area.

5.5.1 Ontario Street North

Based on the PCSWMM model, there is one area of significant ponding at a low point on Ontario Street during a 5-year storm; however, the model may not be 100% reflective the real life as the model is not calibrated.

The capacity of the minor system on Ontario Street North was reviewed. Based on the modelled results, in areas where the storm sewers had no available capacity (i.e. surcharging to the surface), additional inlet capacity will not improve major system performance. Minor infrastructure improvements like upgrades to a few segments of a storm sewer were recommended.

ICD programs were recommended in combination with other upgrades. ICDs were applied in all appropriate locations along roadways in order to reduce the HGL within the minor system by keeping flow on the major system roadways.

A major upgrade to the Ontario Street North storm sewer has been proposed by the Municipality and is scheduled for construction. Additional Pipe upgrades could be reviewed for feasibility and grading restrictions at life cycle renewal.

5.5.2 Main Street West

Additional catch basins or curb inlets (8 CBs) were applied at low point locations along roadways that experience significant ponding resulting in surface flooding. Also, ICDs were applied to areas where the minor system required additional capacity in order to alleviate the HGL and allow for additional inlet capacity at other locations.

Upgrades to the storm sewers can prevent ICDs from increasing the risk of basement flooding. Minor pipe upgrades were also considered as long-term infrastructure improvements and will benefit the minor system performance for the area. LID measures are also recommended to reduce localized surface flooding for small storm events (5-year). For areas that is not feasible for LID measures or LIDs are ineffective in controlling overland flows (low point at 25 Main Street West), grading improvements may be required.

5.5.3 Gill Road

The baseline modeling results demonstrate that there is the potential for one significant ponding area at a low point on Gill Road during a 5-year storm. During a 100-year storm, ponding occurs at two locations on Gill Road.

Per the model, the cause of theoretical flooding on Gill Road is likely due to the storm system being severely over capacity; however, there are no records of complaints by residents The model indicates that t

Per the model, the existing storm system on Gill Road is under capacity, with surcharging and flooding occurring in both 5-year storm and 100-year storm. Proposed pipe upgrades were recommended as long-term infrastructure improvements in areas where the storm sewers had no sufficient capacity. Additional catch basins (4 CBs) can be installed at low point locations on Gill Road to reduce some localized surface flooding.

However, as the storm system is surcharging to the surface, any additional capture at upstream areas may increase flooding at the low point. Therefore, ICDs were only applied to downstream sewers that required additional capacity in order to alleviate the HGL. ICDs were not applied to areas upstream of sections with significant surface ponding.

5.5.4 Green Acres Crescent

In Green Acres Crescent neighborhood, the downstream storm sewers are over capacity with relatively low depth of flow on the road. Thus, the major system has additional capacity to convey more flow on roadways

without increasing the risk of surface flooding. ICDs improve the level of service to reduce the risk of basement flooding in the area and do not result in a large increase of ponding on roadways.

5.5.5 Urban Residential Area Without Sewers

There are some localized ponding issues within the residential areas where there are no existing sewer systems. A number of properties in the area were identified as special problematic areas that had experienced significant flooding in the history. Assessment of the flooding issues and opportunities in the problematic areas have more specific and unique consideration.

Long term infrastructure improvements to storm sewers are recommended. Proposed storm sewers will improve the system performance in the whole residential area. It is also recommended to revise the grading and provide positive outlet for overland flow route to avoid ponding at low points. Since the soil type of sand provides good infiltration, LID measures are recommended to reduce localized surface flooding for small storm events. To achieve the target reduction of ponding depth, several bioretention/infiltration features could be considered:

- Bio-swales that capture and infiltrate runoff from the adjacent road and residential lots.
- Small bioretention traplows at the corner of the residential area, which capture and infiltrate back-of-lot runoff.
- Residential lots will be required to drain all roof runoff to pervious surfaces (lawns, gardens, natural vegetation, etc.).

LIDs were applied to the upstream catchment areas of the low points with no overland outlets. The locations and size of LID measures to be implemented are shown in the **Table 5.5** below.

Table 5.5 LID Sizing and Implementation

LOW POINT ID	LOCATION	CATCHMENT LID APPLIED	LID SIZING				RUNOFF VOLUME REDUCTION (M^3)
			LID TYPE	NUMBER OF UNIT	AREA OF EACH UNIT (M^2)	WIDTH PER UNIT (M)	
MJ102	Walker Street at Huron Street	UC3	Bioretention Cell	1	60	5	20
		UC4	Bioretention Cell	1	100	5	60
		UC6	Bioretention Cell	1	160	5	40
MJ120	45 Walker Street	UC7	Bioretention Cell	1	120	5	50
		UC8	Bioretention Cell	1	300	5	110
		UC127	Bioretention Cell	1	300	5	120
MJ61	17 Pine Street	UC40	Bioretention Cell	1	80	5	30
		UC59	Bioretention Cell	1	200	5	80
		UC60	Bioretention Cell	1	100	5	50
		UC136	Bioretention Cell	1	50	5	10
MJ97	52 Oak Street	UC131	Bioretention Cell	1	100	5	30
		UC132	Bioretention Cell	1	150	5	50
MJ29	16 Lakeside Circle	UC97	Bioretention Cell	1	60	5	20
		UC96	Bioretention Cell	1	150	5	60
MJ58	Shady Lane at Huron Ave	UC90	Bioretention Cell	1	120	5	50
		UC89	Bioretention Cell	1	200	5	80

LOW POINT ID	LOCATION	CATCHMENT LID APPLIED	LID SIZING				RUNOFF VOLUME REDUCTION (M^3)
			LID TYPE	NUMBER OF UNIT	AREA OF EACH UNIT (M^2)	WIDTH PER UNIT (M)	
MJ59	Dietrich Crescent	UC77	Bioretention Cell	1	100	5	40
MJ90	27 Morzen Lane	UC82	Bioretention Cell	1	140	5	60

In addition, the installation of proposed storm sewer systems is recommended as a long-term improvement, and it will improve the performance for storm drainage for all the areas. For areas where it is not feasible for LID measures or where LIDs are ineffective in reducing surface ponding (low point at 52 Oak Street), it is also recommended to revise the grading and provide positive outlet for overland flow routes to avoid ponding at low points.

5.5.6 Rural Residential Area

There are some localized ponding issues within the rural residential areas where there are no existing sewer system. Historical flooding was reported by some property owners. The installation of proposed storm sewer is recommended, and it will improve the performance in the whole area. It is also recommended to revise the grading and provide positive outlet for overland flow route to avoid ponding at low points. In addition, since the soil type of sand provides good infiltration, LID measures are recommended to reduce localized surface flooding for small storm events.

Based on the information developed in the previous steps, the preferred strategy for the Village is illustrated in **Figure 5-1**. **Table 5.6** also presents a summary of recommendations and considerations for each Study Area.

Table 5.6 Preferred Alternative for Problematic Areas

ONTARIO STREET NORTH	Future Improvements	• ICDs to be added at MH locations of MH10, MH8, MH3, MH4. • Sewer Pipe C716, C248, C767 to be upsized.
	Dependencies / Triggers	• The sewer on Ontario Street is expected to surcharge to the surface, limiting the ability for additional catch basins. • The addition of ICDs offset the negative impact of additional flow in the storm sewers. • A proposed design of the sewers system has been completed. Upgrades to the storm sewer are dependent on the life cycle renewal.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • Upsizing the storm sewer on Ontario Street will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Ontario Street. • Where the sewer does not have capacity, minor upsizing of the storm sewer is recommended. • Additional catch basins without other improvements are not recommended as the sewers are surcharging to the surface.
MAIN STREET WEST	Future Improvements	• ICDs to be added at MH locations of MH4_Main, MH5_Main, MH6_Main. • Additional catch basins (8 CBs) to be added at the low point close to MJ105. • Sewer Pipe C663, C664, C666, C753, C752 to be upsized.
	Dependencies / Triggers	• Upgrades to the storm sewer are dependent on the grading constraints. • The design of any upgrades to storm sewers should consider the impact of larger storm events (i.e., 100-year) • as there are no outlets for the major system on Main Street and sewers surcharging to the surface will increase ponding.
	Benefits	• ICDs do not result in a large increase of ponding on roadways. • Additional catch basins at low points allow for ICDs to be installed upstream without worsening surface flooding and ponding at low points. • Upsizing the storm sewer on Main Street West will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for some area of Main Street West. • Additional catch basins are recommended at low points where ICDs have been added upstream. • Where the sewer does not have capacity for additional catch basins, minor upsizing of the storm sewer is recommended.
GILL ROAD	Future Improvements	• ICDs to be added at MH locations of MH25-1 and MH26. • Additional catch basins (4 CBs) to be added at the low point close to MJ146. • Sewer Pipe C343, C714, C344, C345, C764, C715, C346, C347 to be upsized.
	Dependencies / Triggers	• The storm sewer on Gill Road is over capacity during 5-year storm and limits other improvements. • An ICD program is not recommended without other improvements.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • ICDs are a low-cost, short-term benefit to most properties in the area. • Upsizing the storm sewer on Rill Road will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Gill Road. • Upsizing the storm sewers to capture more flow with additional catch basins at low points is recommended. • Additional catch basins are recommended at low points
WILBERT STREET	**Recommendations**	• A pre-existing gravel pit retains stormwater. A local resident believes that the outlet may be blocked. The Village does not own it and consequently will not be addressing deficiencies.
HARBOURSIDE VILLAGE/ERIN PLACE	**Recommendations**	• The drainage ditch on Erin Place was constructed to divert water from the agricultural land to the south. It previously flowed through a natural ravine that existed prior to the subdivision being developed. The ditch itself is entirely on private property which limits the Municipalities ability to address it. • Lambton Shores staff have been negotiating with the owner of the agricultural lands to create an alternative outlet for the water which may be completed under the Drainage Act or under some sort of other pre-development agreement. • A solution to this issue can be addressed through negotiation with the private landowners.
GREEN ACRES CRESCENT	Future Improvements	• ICDs to be added at MH locations of J113, J101, J102. • Sewer Pipe C712, C674 to be upsized.
	Dependencies / Triggers	• The downstream sewer is expected to surcharge to the surface, limiting the ability for additional catch basins.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • ICDs are a low-cost, short-term benefit to most properties in the area. • Upsizing the storm sewer will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Green Acres Crescent. • Where the sewer does not have capacity, minor upsizing of the storm sewer is recommended.

RESIDENTIAL AREAS WITHOUT SEWERS	Future Improvements	Consider installing proposed sewer system within the problematic area for a long-term development. Provide overland flow route by revise grading.
	Dependencies / Triggers	Significant surface ponding at low points without minor systems
	Benefits	Installation of storm sewer systems will benefit several properties with a history of flooding.
	Recommendations	The residential areas at northwest of the Village have a history of flooding (See Figure 2-1-b) and installation of the storm sewer will improve the performance in these areas. Revise the grading and provide positive outlet for overland flow route to avoid ponding at low points within the areas.

Residential area without sewers:
• Installation of the proposed storm sewers is recommended and will improve the performance in the areas have a history of flooding.
•Revise the grading and provide positive outlet for overland flow route to avoid ponding at low points.
•LIDs are recommended to additional infiltration.

10128 Edmonds Boulevard

9886-9892 Wilbert Street

Lake Huron

Old Ausable Channel

Parkhill Creek

Gill Drain

Gill Road Subdivision

0 125 250 500 Meters

Scale: 1:8,000

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Key Map

Study Area

Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- SWM Pond
- Link from Minor to Major System at CB Locations
- Infiltration Trench
- Subcatchment
- Identified Problematic

Minor System Hydraulic Components:

- Minor Junction (MH/CBs)
- Minor Conduit (Stormwater Pipes)
- Inlet Control Device
- Upsized Pipes
- Additional Catchbasins

Major System Hydraulic Components:

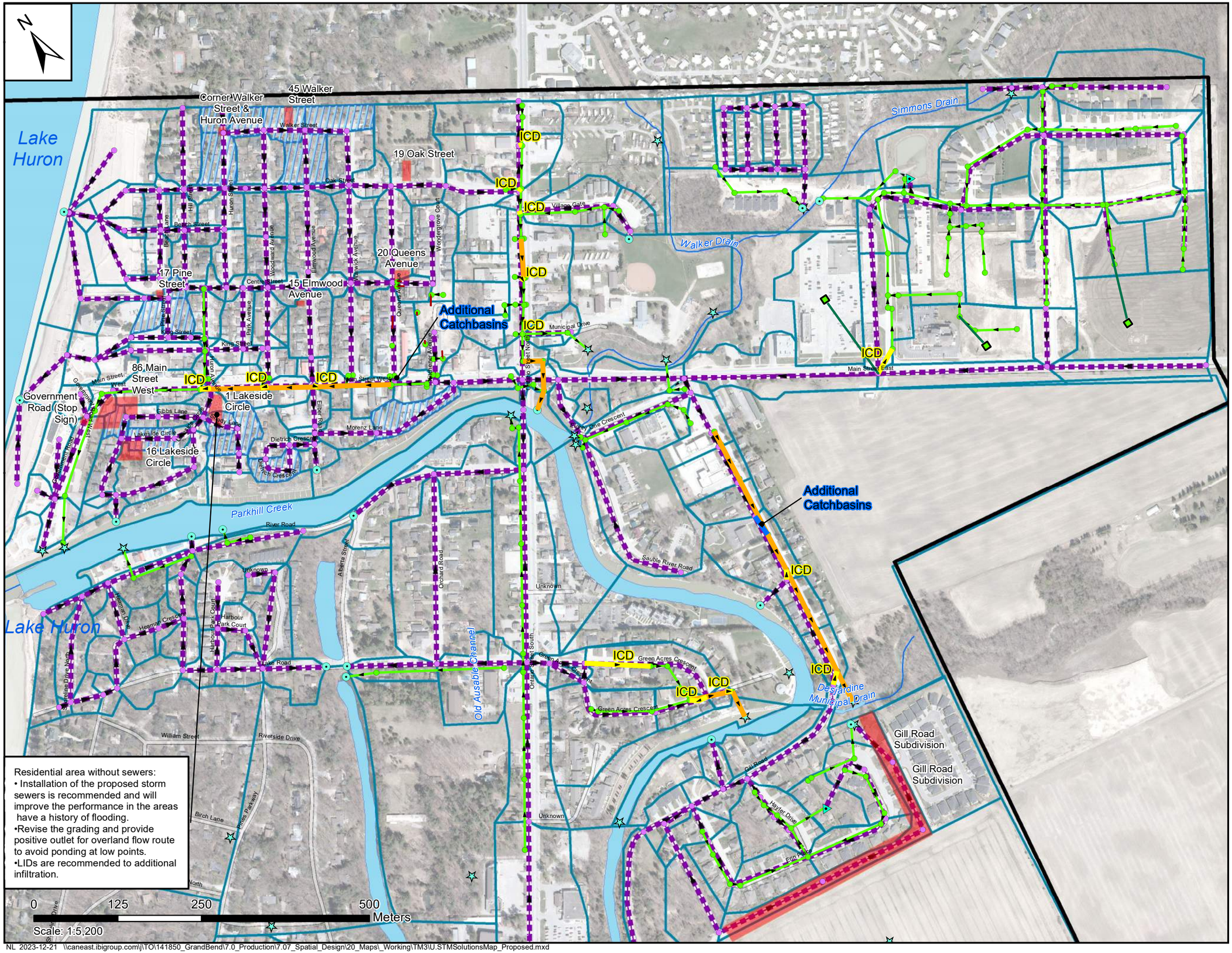
- Minor Junction of Major System Flow Paths
- Major Conduit (Overland Flow Path)

Figure 5-1-a Rural Potential SWM Alternatives and Recommendations for Problematic Areas Map

Grand Bend Stormwater Management Master Plan

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Legend

- SWM Pond
- Storm Outfall
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- On-Site SWM Control
- Link from Minor to Major System at CB Locations
- Orifice
- Infiltration Trench
- Municipal Drain
- LID Applied Subcatchment
- Village of Grand Bend Municipal Boundaries
- Identified Problematic Area
- Subcatchment Areas
- Waterbodies

Minor System Hydraulic Components:

- Minor Junction (MH/CBs)
- Minor Conduit (Stormwater Pipes)
- Upsized Pipes
- Inlet Control Device
- Additional Catchbasins

Major System Hydraulic Components:

- Minor Junction of Major System Flow Paths
- Major Conduit (Overland Flow Path)

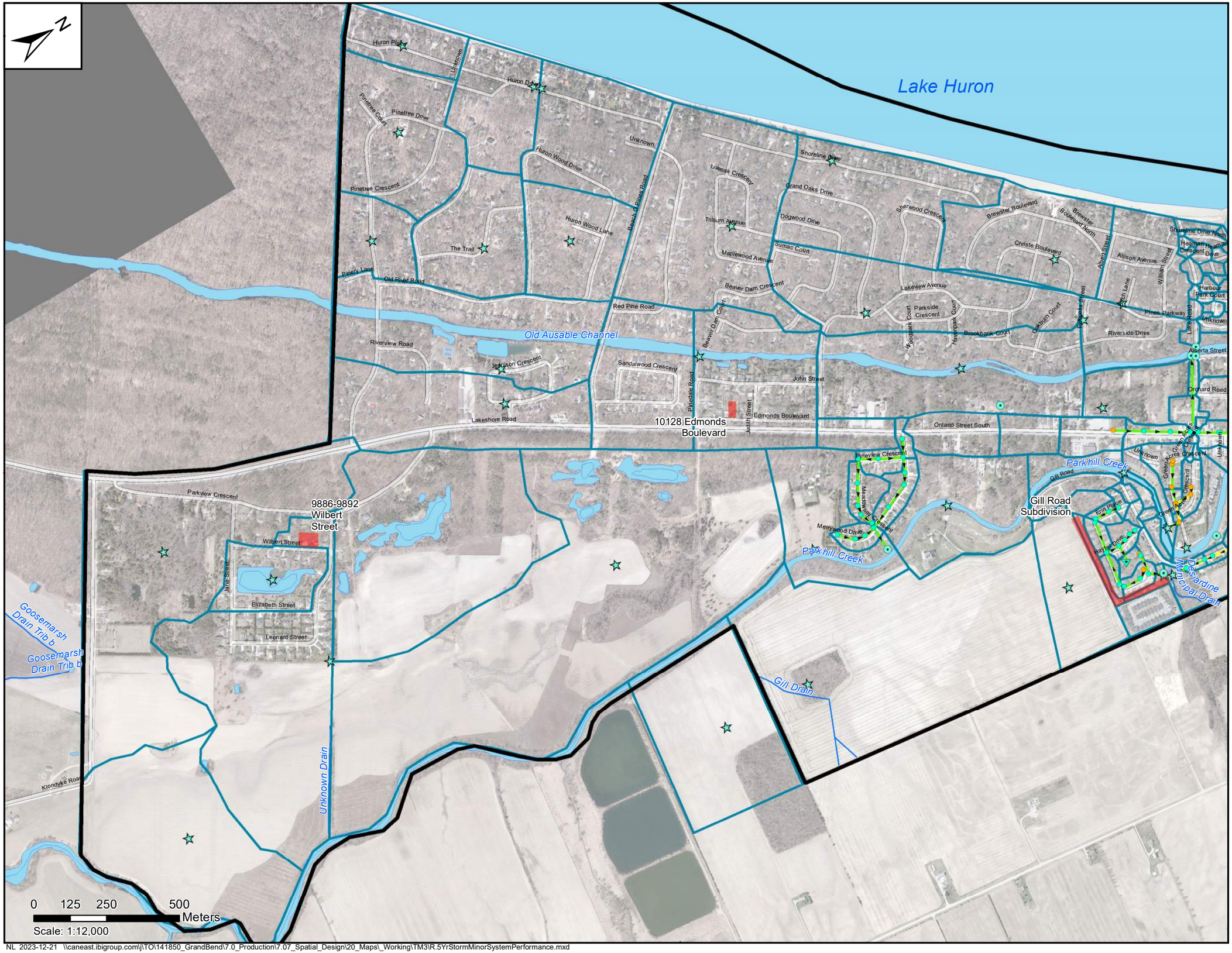
Figure 5-1-b Urban Potential SWM Alternatives and Recommendations for Problematic Areas Map

Grand Bend Stormwater Management Master Plan

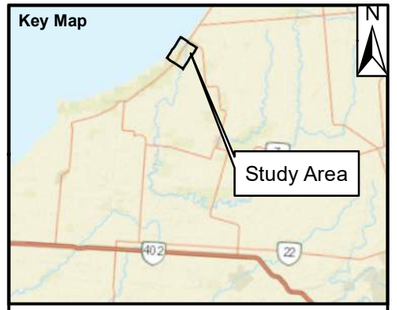
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Key Map



Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Storm Outfall
- SWM Pond
- Subcatchment
- Identified Problematic

HGL Level During 100-Year Storm Event

- Flow to Surface
- Freeboard < 1.8m
- Freeboard > 1.8m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)
- Infiltration Trench

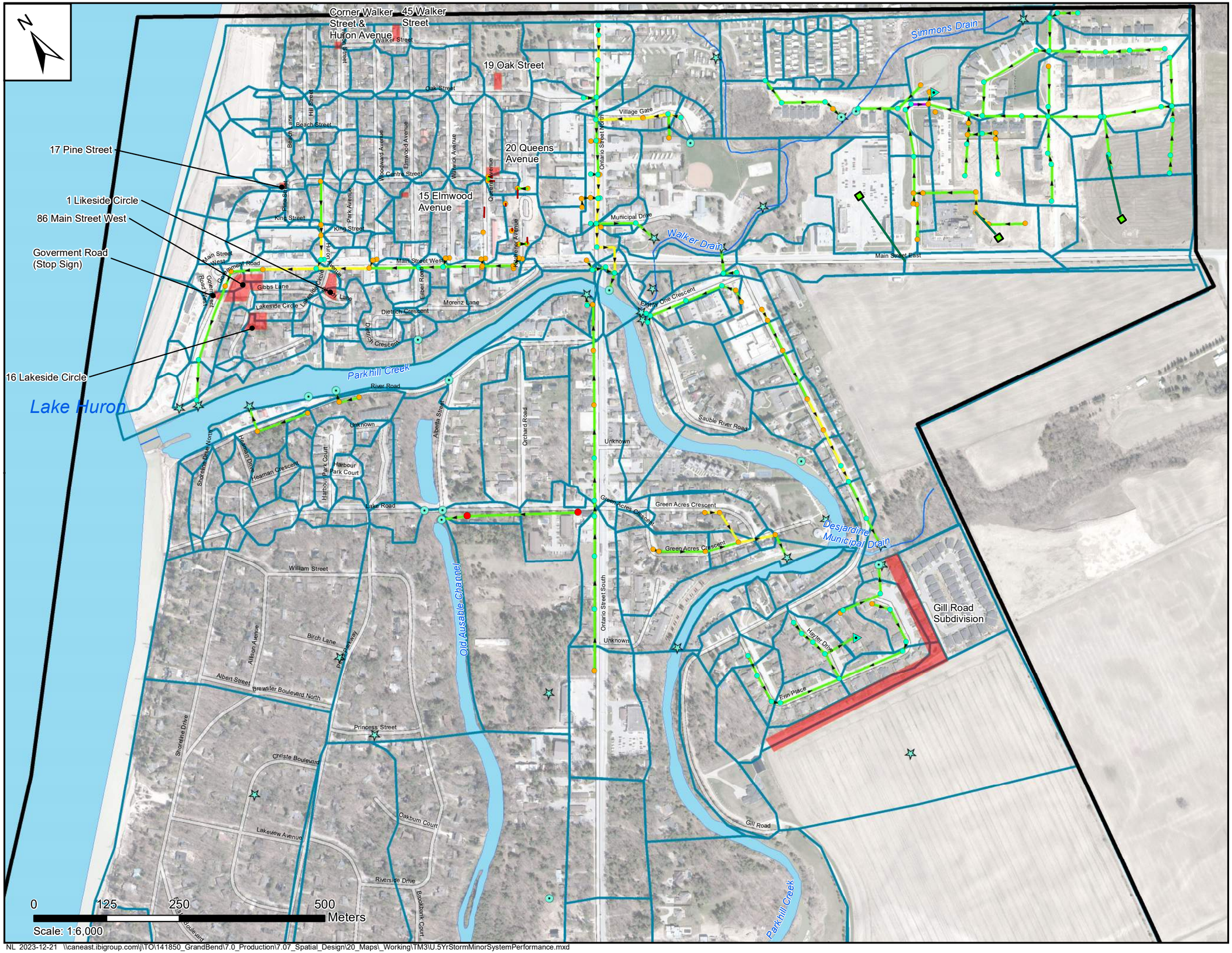
Figure 5-2-a Rural 5-Year Storm Event Minor System Performance - Proposed Condition

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Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Storm Outfall
- SWM Pond
- On-Site SWM Control
- Orifice
- Infiltration Trench
- Subcatchment Areas
- Identified Problematic Area

HGL Level During 5-Year Storm Event

- Flow to Surface
- Freeboard < 1.80
- Freeboard > 1.80m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)

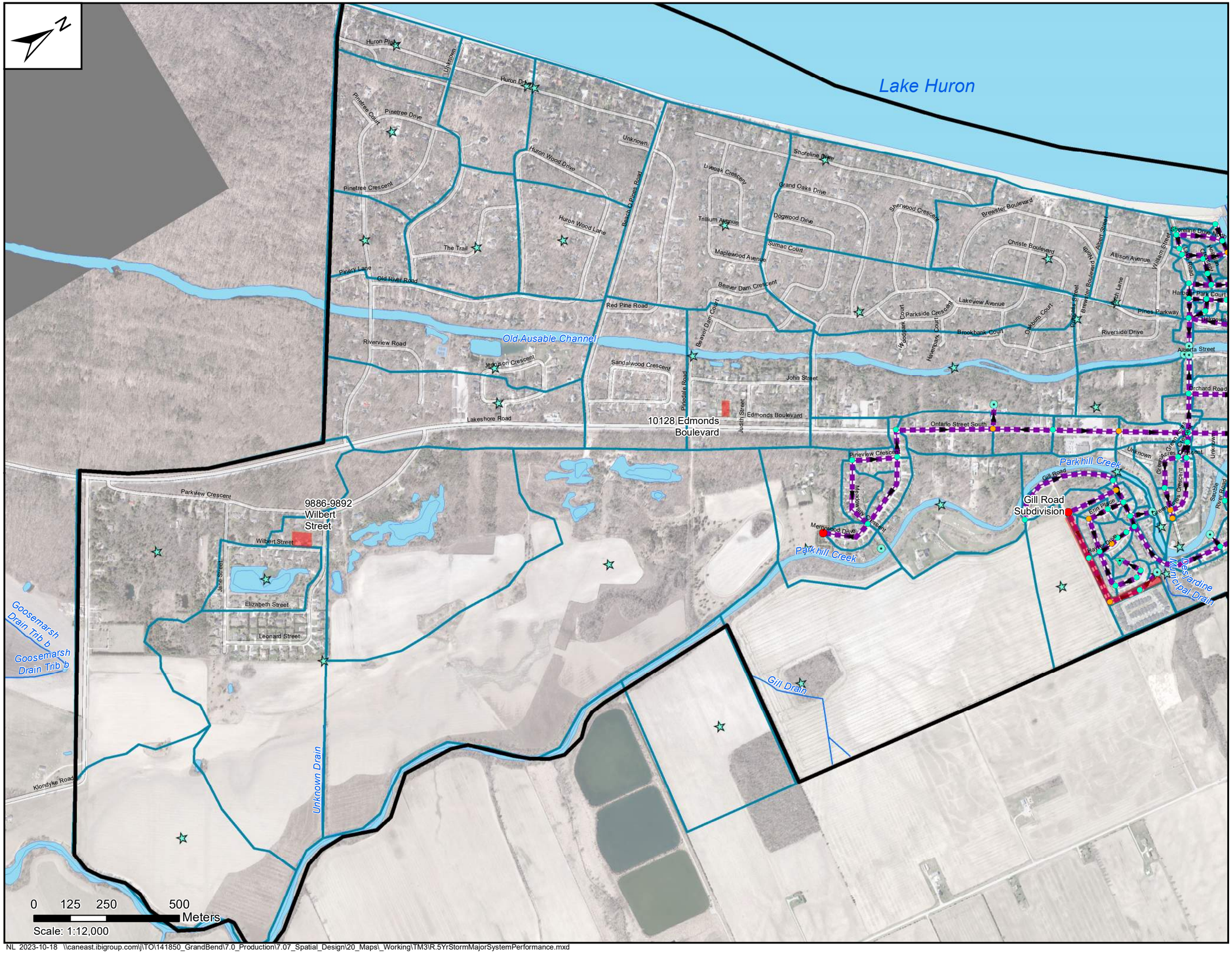
Figure 5-2-b Urban 5-Year Storm Event Minor System Performance - Proposed Conditions

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Legend

- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Storm Outfall
- SWM Pond
- Municipal Drain
- Village of Grand Bend Municipal Boundaries
- Subcatchment Areas
- Identified Problematic Area
- Waterbodies

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding <150mm
- Ponding between 150mm and 300mm
- Ponding > 300mm
- Major Conduit (Overland Flow Path)

Figure 5-3-a Rural 5-Year Storm Event Major System Performance - Proposed Conditions

Grand Bend Stormwater Management Master Plan

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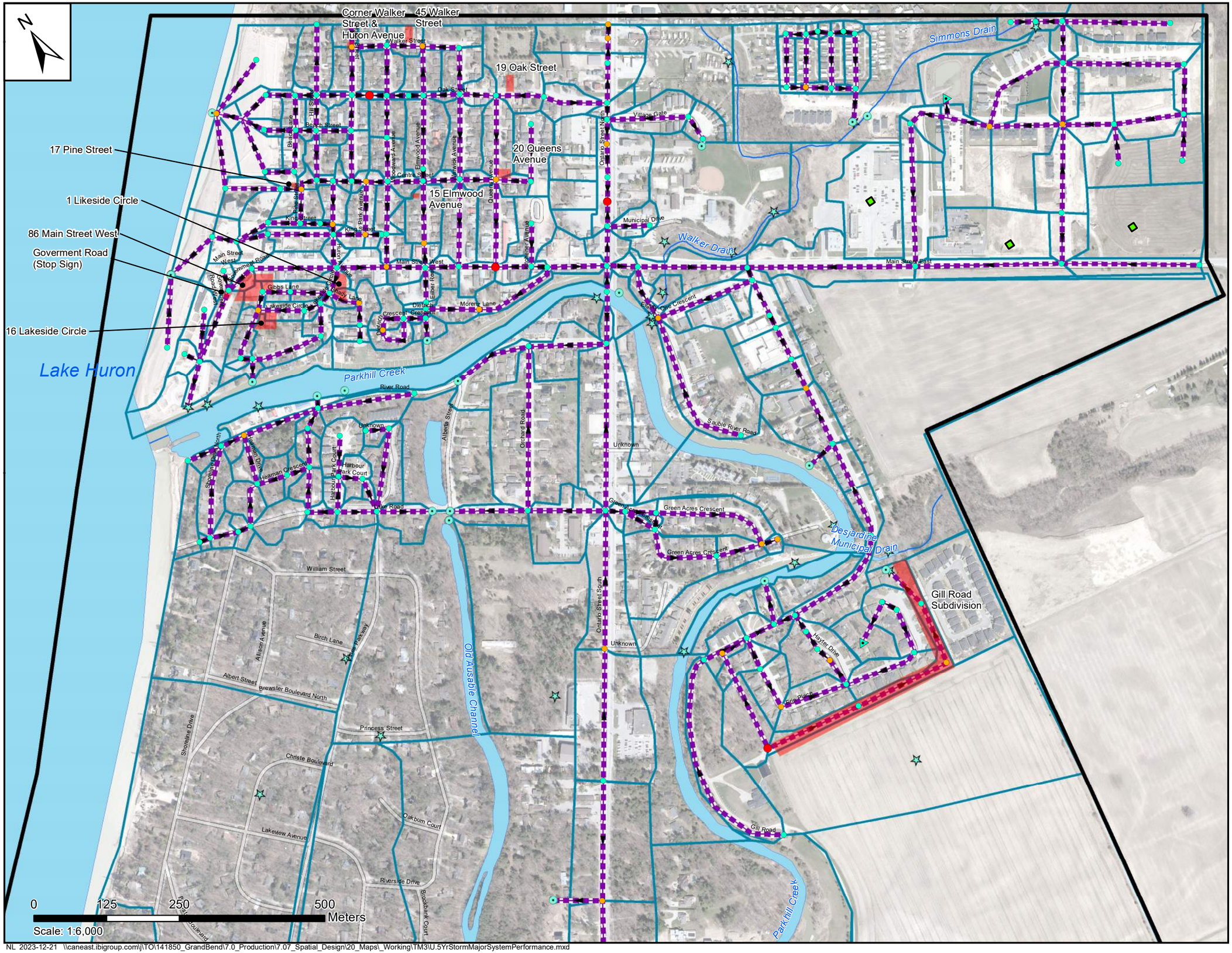


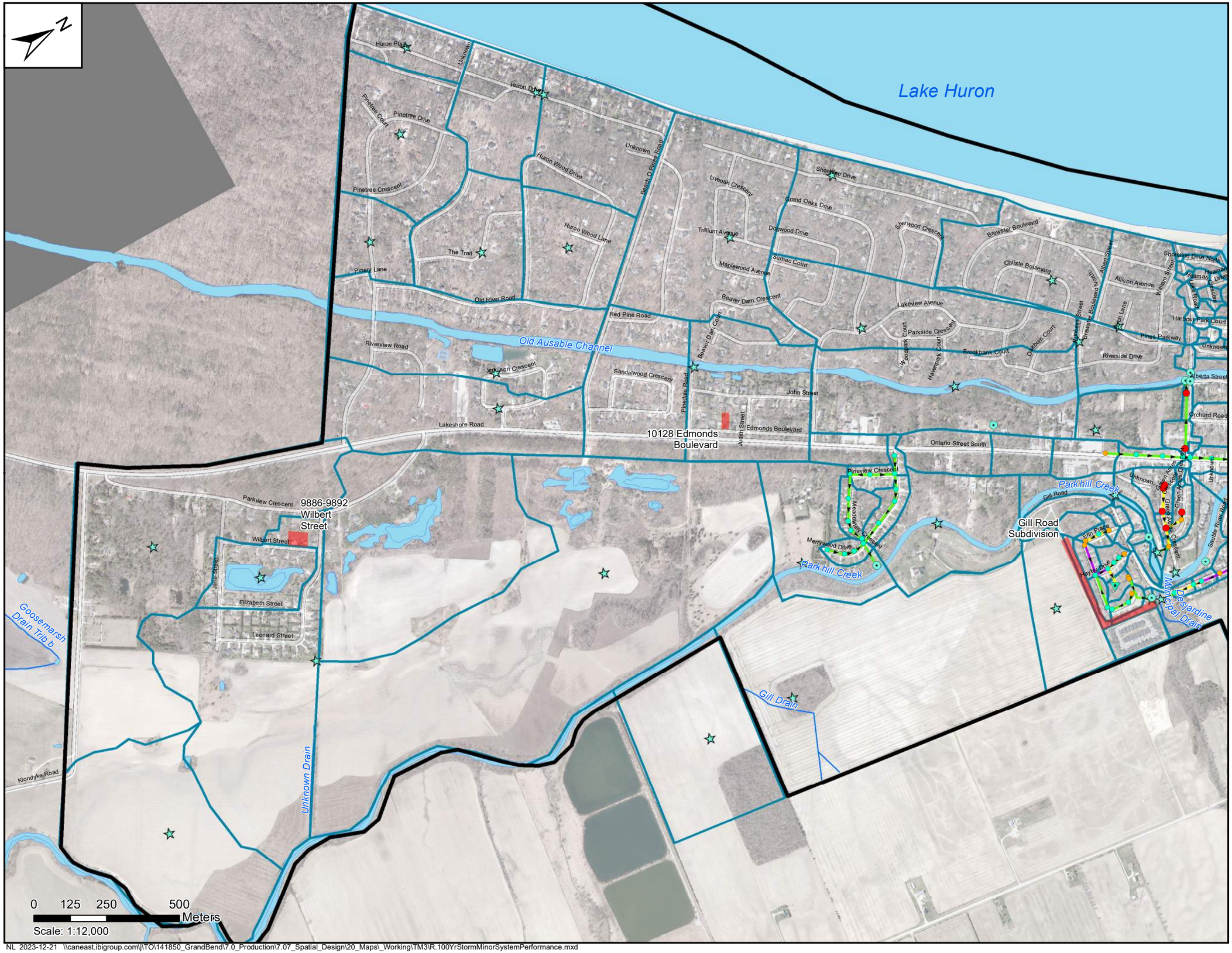
Figure 5-3-b Urban 5-Year Storm Event Major System Performance - Proposed Conditions

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Legend

- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Storm Outfall
- SWM Pond
- Municipal Drain
- Village of Grand Bend Municipal Boundaries
- Subcatchment Areas
- Identified Problematic Area
- Waterbodies

HGL Level During 100-Year Storm Event

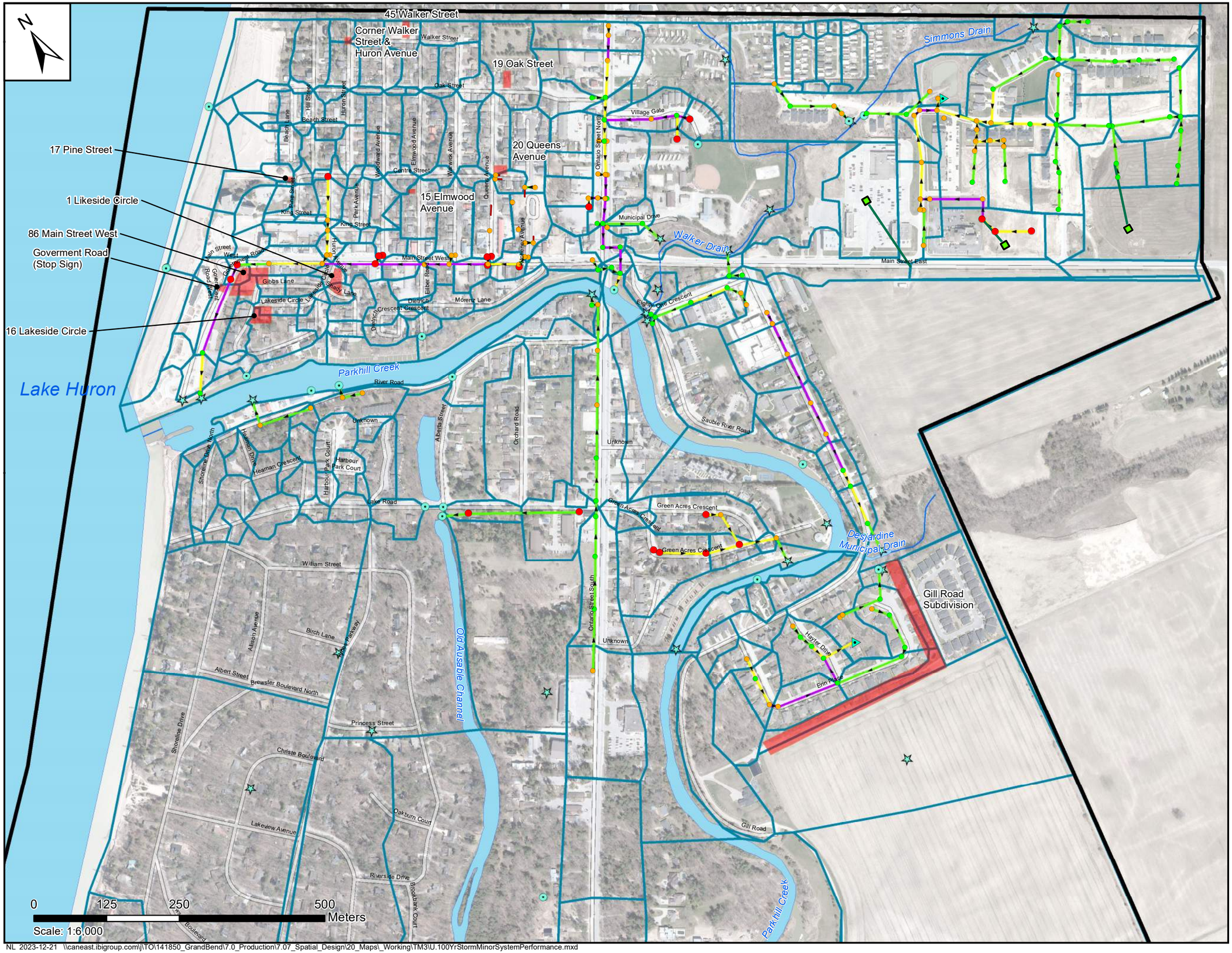
- Flow to Surface
- Freeboard < 1.8m
- Freeboard > 1.8m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)
- Infiltration Trench

Figure 5-4-a Rural 100-Year Storm Event Minor System Performance - Proposed Condition

Grand Bend Stormwater Management Master Plan

ARCADIS

Project No.	Date:
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Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Storm Outfall
- SWM Pond
- On-Site SWM Control
- Orifice
- Infiltration Trench
- Subcatchment
- Identified Problematic

HGL Level During 100-Year Storm Event

- Flow to Surface
- Freeboard < 1.80m
- Freeboard > 1.80m
- Free Flow
- Surcharged (Backwater)
- Surcharged (Over Capacity)

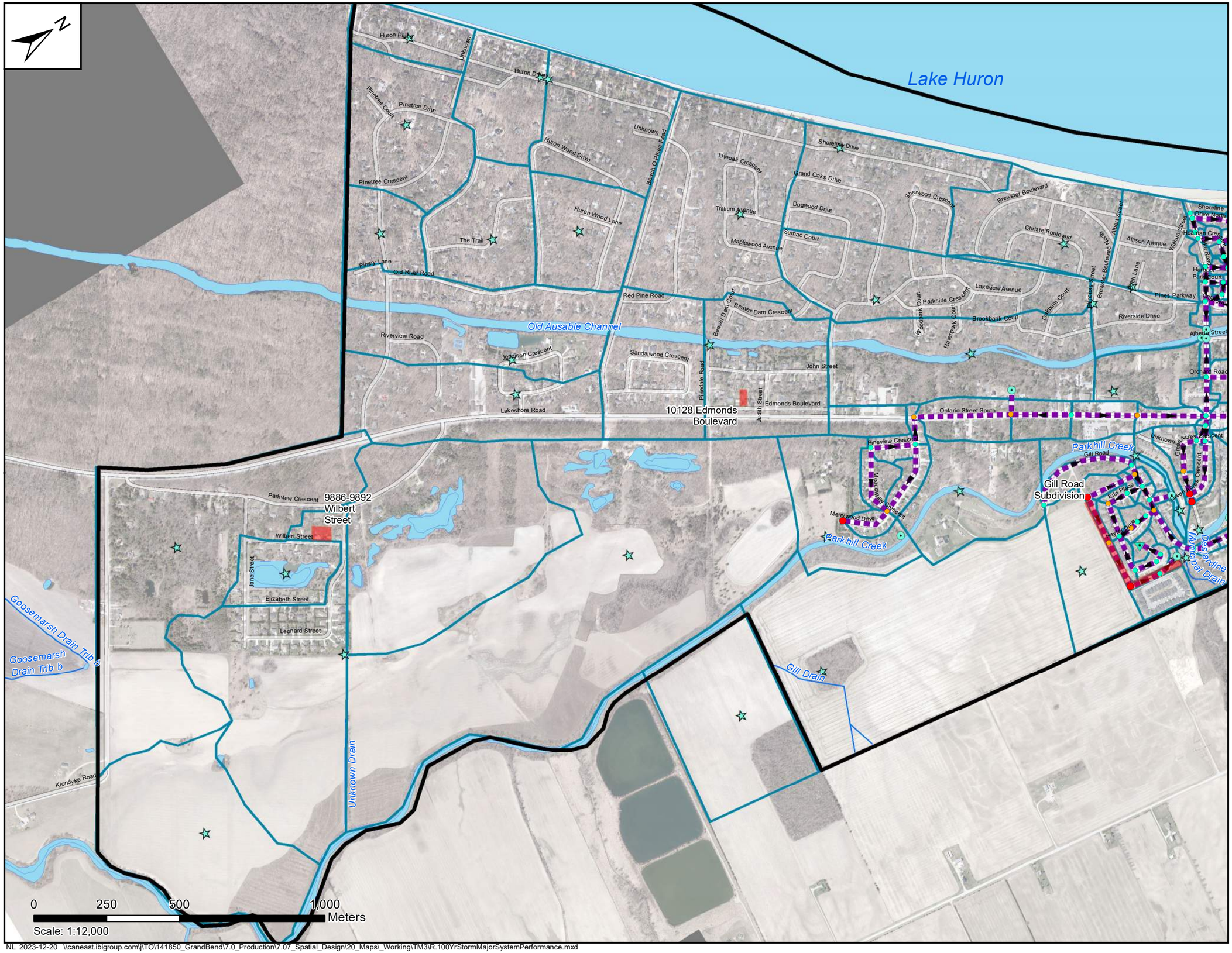
Figure 5-4-b Urban 100-Year Storm Event Minor System Performance - Proposed Conditions

Grand Bend Stormwater Management Master Plan

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Legend

- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- Storm Outfall
- SWM Pond
- Municipal Drain
- Village of Grand Bend Municipal Boundaries
- Subcatchment Areas
- Waterbodies
- Identified Problematic Area

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding < 150mm
- Ponding between 150mm and 300mm
- Ponding > 300mm
- Major Conduit (Overland Flow Path)

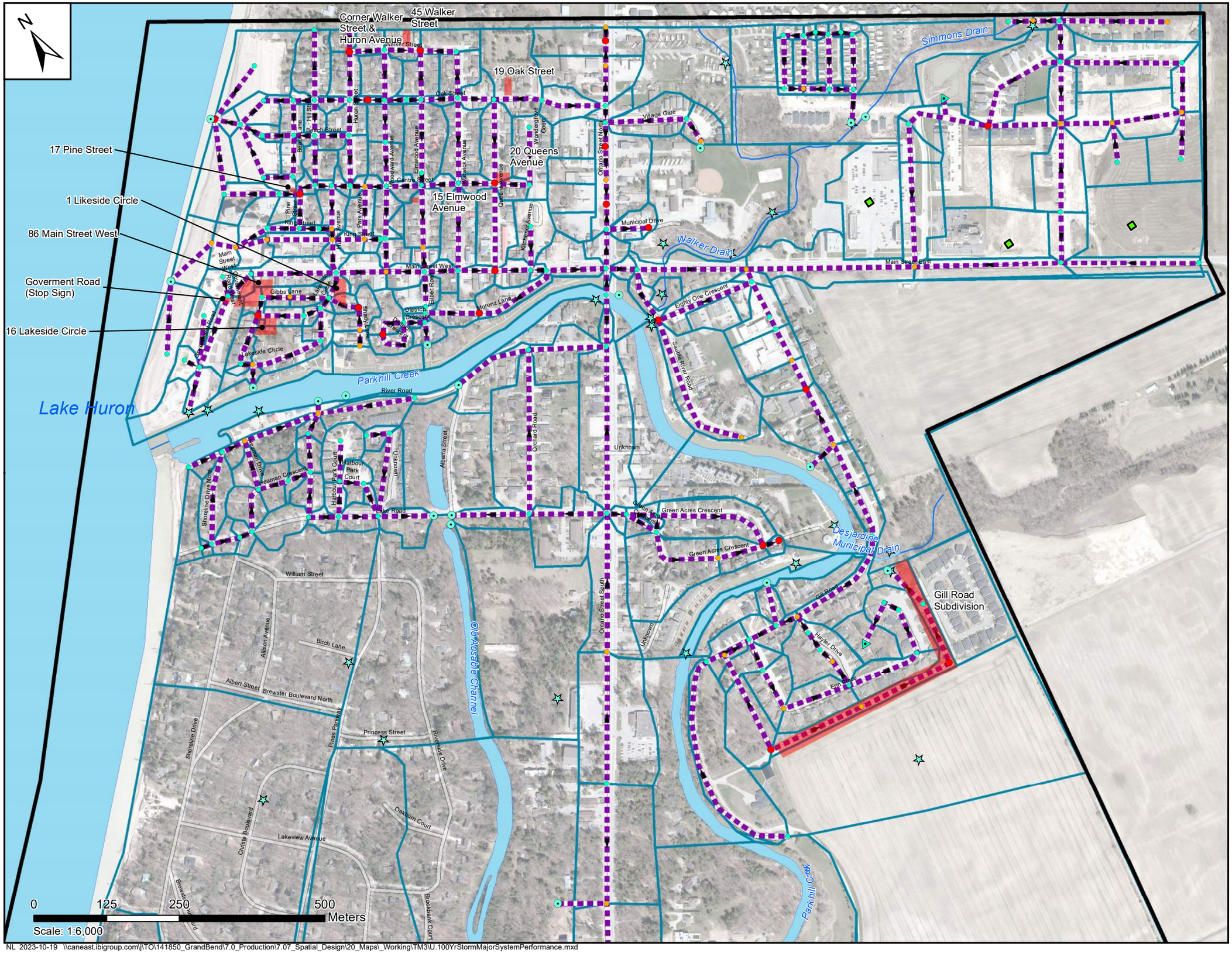
Figure 5-5-a-Rural 100-Year Storm Event Major System Performance - Proposed Condition

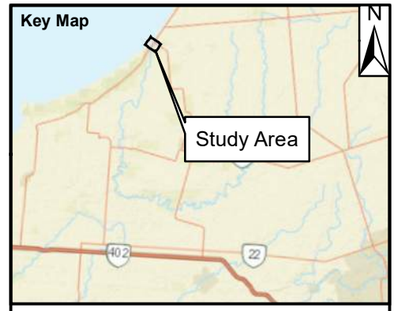
Grand Bend Stormwater Management Master Plan

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Legend

- Village of Grand Bend Municipal Boundaries
- Waterbodies
- Municipal Drain
- SWM Pond
- Low Point/Assumed Outfall - Refer to TM#2 Memo for Details
- On-Site SWM Control
- Storm Outfall
- Subcatchment
- Identified Problematic

Ponding Depth in the Major Junctions of the Overland Flow System (Including Roadways, Driveways, Swales)

- Ponding < 150mm
- Ponding between 150mm and 300mm
- Ponding > 300mm
- Major Conduit (Overland Flow Path)

Figure 5-5-b Urban 100-Year Storm Event Major System Performance - Proposed Conditions

Grand Bend Stormwater Management Master Plan

ARCADIS

Project No.	Date:
141850	December 2023

NL 2023-10-19 \\caneast.ibigroup.com\i\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\TM3\U.100YrStormMajorSystemPerformance.mxd

6 Recommendations

6.1 Short-Term Action Plan

Modelled results for the proposed conditions demonstrated some areas of the major system have potential capacity for additional flow to be conveyed overland, demonstrating that inlet control devices (ICDs) and overland drainage improvements should be applied. ICDs are a low-cost, short-term benefit to most properties in the area.

Additional catch basins or curb inlets were applied in locations on roadways as a low-cost, short term overland drainage improvement by reducing the surface flooding. Short and long-term recommendations are provided in **Table 6.1**

The most effective short-term method to reduce basement flooding is to install sump pumps and backwater valves as required. If the residents experience basement flooding, we encourage consultation with the Village to establish if funding can be made available.

A conceptual plan for ICD and additional catch basins has been shown in the maps.

6.2 Long-Term Strategy

Proposed pipe upgrades were recommended as long-term infrastructure improvements in areas. Larger, long-term infrastructure improvements particularly at life cycle renewal provide opportunities to improve the system performance for many areas.

Grading improvements to allow for an emergency spill route at specific locations and installation of minor system can be considered during future redevelopment in the residential area where overland drainage issues are present.

Table 6.1 Short Term and Long-Term Recommendations

PRIORITIZATION	RECOMMENDED IMPROVEMENTS
Short Term Recommendations	1. Inlet Control Device (ICD) 2. New Catch Basins 3. LID Measures
Long Term Opportunities	1. Storm Sewer upgrades 2. Roadway Grading improvements

6.3 Prioritization of Mitigation Options

The prioritization of the recommended options is based on the cost estimate for each improvement. As per the **Table 6.2**, the use of low-cost, short-term solutions such as ICD controls, LID measures and additional CBs will be considered first, with more complex/costly options considered second.

High level Cost estimates for the short-term conceptual ICD & additional CB plan and long-term sewer upgrades plan has been proposed. Additional long-term recommendations for the study area are high-level and will require additional conceptual design and considerations to prepare an accurate cost estimate. Refer to **Table 6.2** .

Table 6.2 Cost Estimate

ITEM #	DESCRIPTION	BID QTY.	UM	UNIT BID PRICE	TOTAL PRICE	ENGINEERING COST [1]
PRE	Mob/ Demob, Project Start-up, Locates, Surveying, Down-Days (Bad Weather Days), Office Trailers, Portable Washrooms and Hand Stations, Material Deliveries, etc.	1	Ls	$441,684.82	$441,684.82	
1	Low Impact Development - Bioretention Cells	18	Ea	$40,996.68	$737,940.24	$51,655.82
2	Installation Of ICDs	14	Ea	$24,200.24	$338,803.36	$23,716.24
3	Installation Of Additional Catch Basins	12	Ea	$24,815.02	$297,780.24	$20,844.62
4	Gill Rd - 375mm Storm Sewer Upgrades	21.6	m	$1,240.29	$26,790.26	$5,358.05
5	Gill Rd - 600mm Storm Sewer Upgrades	57.9	m	$1,324.97	$76,715.76	$15,343.15
6	Gill Rd - 675mm Storm Sewer Upgrades	93.3	m	$1,483.36	$138,397.49	$27,679.50
7	Gill Rd - 825mm Storm Sewer Upgrades	279.2	m	$1,759.94	$491,375.25	$98,275.05
8	Ontario St N - 750mm Storm Sewer Upgrades	57.5	m	$1,661.56	$95,539.70	$19,107.94
9	Ontario St N - 825mm Storm Sewer Upgrades	145.4	m	$1,739.35	$252,901.49	$50,580.30
10	Main St W - 450mm Storm Sewer Upgrades	285.2	m	$1,266.17	$361,111.68	$72,222.34
11	Green Acres Crescent - 375mm Storm Sewer Upgrades	64.9	m	$1,114.66	$72,341.43	$14,468.29
12	Green Acres Crescent - 450mm Storm Sewer Upgrades	42.3	m	$1,170.98	$49,532.45	$9,906.49
				Grand Total:	**$3,380,914.17**	**$409,157.77**

1 Assumes 7% of construction cost for ICDs/CBs, 20% for storm sewer upgrade.

Assumptions:

- This pricing has no costing associated with utilities locates present in the excavation areas; no mandatory setbacks, no disconnections, or relocation has been included.
- Assumes an average of 20m of piping can be replaced and backfilled per day.
- With the current scope of work provide and due to current market volatility, pricing is budgetary and will need several final reviews upon firm pricing being provide.
- Material lead times determined at time of order subject to product availability.
- No water management included in the pricing, as no borehole logs or data has been provided.
- All permits (if needed) completed by others. No costing for this has been included.
- Assumes no half load restrictions.
- This budget assumes no restoration costs (hydroseeding, asphalt, concrete, decorative stones, landscaping beds/stones, bollards, vegetation, etc.).

7 Conclusions

The baseline model found that the existing storm network is over capacity. In many areas, the HGL in the storm sewer is expected to reach the basement floor slab elevation in a 5-year storm event. The major system generally has adequate capacity, however in many areas drains to low points with insufficient outlets.

A proposed condition model was created, and possible solutions were assessed in the proposed development scenario. Future land use and climate change rainfall data was applied to the model to assess possible opportunities and constraints.

Appendix B and **Appendix C** include supporting modelling files and a comparison of results of existing condition and proposed condition with improvements that were considered for recommendations. Summary of general findings within the area:

- Modelled results for the proposed conditions demonstrated some areas of the major system have potential capacity for additional flow to be conveyed overland, demonstrating that inlet control devices (ICDs) and overland drainage improvements should be applied.
- In many of the modelled areas, the storm sewers are over capacity with relatively low depth of flow on the road therefore the ICD's can begin to limit the flow contribution to the minor system.
- ICDs are low cost, short-term infrastructure improvements limiting flow capture at least until ponding on the road has reached a critical depth or where there is an overland outlet.
- However, in some areas there are limited opportunities in the area for ICDs or overland drainage improvements. ICDs are only appropriate to improve the level of service for areas that have an adequate outlet with additional capacity such as a trunk sewer or overland spill route.
- Additional capture, including new catch basins, was investigated to improve the overland drainage and ponding on roads that may lead to surface flooding. As the minor system is in some areas is over capacity, there are limited opportunities to add catch basins without increasing flooding risks in the minor system. Many of the storm sewers are over capacity and surcharging to the surface in minor events, so additional catch basins will not effectively relieve ponding or significant overland flow.
- LID measures are recommended in areas with good infiltration to provide reduction in storm runoff volume.
- Larger, long term infrastructure improvements particularly at life cycle renewal provide opportunities to improve the system performance for many areas.
- Grading improvements to allow for an emergency spill route at specific locations and installation of minor system can be considered during redevelopment in the residential area where overland drainage issues are present.

8 References

As part of the background review, the following information has been reviewed and adapted for use developing the alternative SWM strategies:

- Lambton Shores Municipal Development and Servicing Standards Manual (2022)
- MOE Stormwater Management Planning and Design (SWMPD) Manual (2003)
- Low Impact Development Stormwater Management Planning and Design Guide (2010)
- Ausable Bayfield Conservation Authority Stormwater Management Policies and Technical Guidelines, Stantec (2009)
- Municipality of Lambton Shores Official Plan, Lambton Shores, 2022
- Asset Management Plan for The Municipality of Lambton Shores, PSD Research, 2019
- Rice subdivision stormwater management design report, Lambton Shores (2011)
- Geotechnical Investigation Report, Proposed Sanitary & WM Trenchless Crossing, c. Englobe (2021)
- GB Condo Corp Development - Geotechnical Report, LVM (2014)
- Geotechnical Investigation Proposed Upgrades, Sewage Treatment Facility, Golder (2008)

Appendix A

Supporting Documents

1. Ontario Geological Survey
2. Geotechnical Reports List
3. Received As-built Drawings List Table
4. MECP CLI ECA

Geotechnical Report List Table

ITEM	REPORT NAME	NOTE
1	Geotechnical Investigation Report, Proposed Sanitary & WM Trenchless Crossing - c. Englobe	Site within urban area
2	GB Condo Corp Development - Geotechnical Report - LVM	Site within urban area
3	Rice Subdivision SWM Report – AECOM	Site within urban area, report including Geotech info.
4	Geotechnical Investigation Proposed Upgrades, Sewage Treatment Facility – Golder	Outside of the Study Area

As-Built drawings List Table

DRAWING SET ID#	NAME
1	Deerfield/Rice Subdivision
2	Gill Rd Subdivision
3	Ontario Street N Reconstruction
4	ONTARIO ST S
5	Main Street W Enhancement
6	HWY 81-MAIN ST E
7	Gill Rd Reconstruction
8	Harbour Park
9	Leonard-Elizabeth St
10	Merrywood Meadows
11	Morenz Eilber Reconstruction
12	Vandogen Subdivision
13	Village Crossing Phase 2
14	WeeLakes (Jennison Cres)
15	Government RD - Lakeside Cr
16	Sauble River Road - As built
17	Red Pine-Sandalwood

Ministry of Natural Resources
Ontario

Hon. Frank S. Miller
Minister

Dr. J. K. Reynolds
Deputy Minister

Ontario Geological Survey

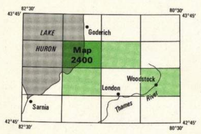
Map 2400

GRAND BEND

Southern Ontario

Quaternary Geology

NTS 40P/5 Scale 1:50 000



MAP COVERAGE: INDUSTRIAL MINERALS, QUATERNARY, OR PLEISTOCENE GEOLOGY SERIES (EXCLUDING PRELIMINARY MAPS)

LAKE HURON

HURON COUNTY

STANLEY

HAY

STEPHEN

BOSANQUET

MCGILLIVRAY

LAMBTON COUNTY

HURON COUNTY

MIDDLESEX COUNTY

Adjoins Map 2402

Adjoins Map 2386

Grand Bend

Dashwood

Zurich

Hensall

Dublin

Dashwood

Dewey Point

Drysdale

St Joseph

Harpley

Shipka

Kippen

Huron Park

Credition

Mouse Corners

Pinery Provincial Park

Wyoming Moraine

Lake Warren

Lake Nipissing

Lake Whittlesey

Lake Algonquin

Published 1977

Scale 1:50 000

Metres 1000 0 1 2 3 4 5 6 7 Kilometres

Chains 80 40 0 1 2 3 Miles

LEGEND

CENOZOIC

QUATERNARY

RECENT

13 *Alluvium; stream deposits of gravel, sand, and silt.*

12 *Organic deposits; peat, muck and marl.*

PLEISTOCENE

LATE WISCONSINAN

11 *Windblown deposits; sand and silt.*

10 *Older alluvium; gravel, sand, and silt, occasionally fossiliferous.*

9 *Glaciolacustrine deposits (deep water); sand, silt, and clay.*

8 *Glaciolacustrine deposits (shoreline and shallow water); gravel and sand.*

7 *Glaciofluvial outwash deposits; gravel, minor sand.*

6 *Glaciofluvial outwash deposits; sand, minor gravel.*

5 *ST. JOSEPH TILL; clayey silt to silty clay till.*

4 *Southern till; silty clay till.*

3 *RANNOCH TILL; clayey silt to silt till.*

2 *Ice-contact stratified drift; sand, minor gravel.*

UNCONFORMITY

PALEOZOIC

DEVONIAN†

1 *HAMILTON FORMATION; grey shale and limestone.*

Deposits on this sheet are mapped only where they reach three feet or more in thickness. Thinner deposits are not shown.

†Occurs only on companion sheet.

SYMBOLS

- *Hummocky topography.*
- *Trend of moraine crest.*
- *Small meltwater channel; inferred direction of flow.*
- *Shore bluff or scarp.*
- *Abandoned shoreline.*
- *Beach ridge, nearshore bar.*
- *Dune; dune field.*
- *Small bedrock outcrop.*
- *Geological boundary, approximate.*
- *Sink hole; solution weathering site.*
- *Sand, gravel pit.*
- *Clay pit; active, abandoned.*
- 534 *Till sample location.*
- *Topographic contours, elevation in feet.*
- *County, Regional Municipality boundary.*
- *Geographic township, Indian Reserve boundary.*

For other conventional symbols refer to 1:50 000 National Topographic System maps.

SOURCES OF INFORMATION

Geology by A. J. Cooper and assistants, Geological Branch, 1974.

Aerial photography: Forest Resources Inventory, Ministry of Natural Resources, Toronto; National Air Photo Library, Department of Energy, Mines and Resources, Ottawa.

Water well records of the Ontario Water Resources Commission, Ministry of the Environment, gas and oil well records of the Petroleum Resources Branch, Ministry of Natural Resources.

Preliminary map (ODM) P. 974, Quaternary Geology of the Grand Bend Area, Scale 1:50 000, Issued 1974.

Cartography P. A. Wilzbey and assistants, Surveys and Mapping Branch, 1977.

Topography from map 40P/5 of the National Topographic System.

Magnetic declination in the area was approximately 5° West in 1975.

Ontario

ENVIRONMENTAL COMPLIANCE APPROVAL
For a Municipal Stormwater Management System

ECA Number: 049-S701
Issue Number: 1

Pursuant to the *Environmental Protection Act*, R.S.O 1990, c. E. 19 (EPA*),* and the regulations made thereunder and subject to the limitations thereof, this environmental compliance approval is issued under section 20.3 of Part II.1 of the EPA to:

Lambton Shores, The Corporation of the Municipality of

7883 Amtelecom Pky
Forest, ON N0N 1J0

For the following Sewage Works:

Lambton Shores Municipal Stormwater System

This Environmental Compliance Approval (ECA) includes the following:

Schedule	Description
Schedule A	System Information
Schedule B	Municipal Stormwater Management System Description
Schedule C	List of Notices of Amendment to this ECA: Additional Approved Works
Schedule D	General
Schedule E	Operating Conditions
Schedule F	Residue Management
Appendix A	Stormwater Management Criteria

Except where specified otherwise, all prior ECAs, or portions thereof, issued by the Director for Sewage Works described in section 1 of Schedule B are revoked and replaced by this Approval.

DATED at TORONTO this 7th day of November, 2022

Signature



Aziz Ahmed, P.Eng.
Director, Part II.1, *Environmental Protection Act*

Schedule A: System Information

System Owner	**Lambton Shores, The Corporation of the Municipality of**
ECA Number	**049-S701**
System Name	**Lambton Shores Municipal Stormwater System**
ECA Issue Date	**November 7th, 2022**

1.0 ECA Information and Mandatory Review Date

ECA Issue Date	November 7th, 2022
Application for ECA Review Due Date	October 15, 2028

1.1 Pursuant to section 20.12 of the EPA, the Owner shall submit an application for review of the Approval no later than the Application for ECA Review Date indicated above.

2.0 Related Documents

2.1 Other Documents

Document Title	Version
Design Criteria for Sanitary Sewers, Storm Sewers, and Forcemains for future Alterations Authorized under ECA	v.1.1 (July. 28, 2022)

3.0 Stormwater master Plan and Asset Management Plan

Document Title	Version
The Asset Management Plan for the Municipality of Lambton Shores	v.1 (November, 2019)

4.0 Operating Authority

System	Operating Authority
Consolidated Linear Infrastructure Municipal Stormwater Management System: Lambton Shores	Corporation of the Municipality of Lambton Shores

Schedule B: Municipal Stormwater Management System Description

System Owner	**Lambton Shores, The Corporation of the Municipality of**
ECA Number	**049-S701**
System Name	**Lambton Shores Municipal Stormwater System**
ECA Issue Date	**November 7th, 2022**

1.0 System Description

1.1 The following is a summary description of the Sewage Works comprising the Municipal Stormwater Management System:

Overview

The Municipal Stormwater Management (SWM) System serving the Municipality of Lambton Shores' drainage area, is a separate system for stormwater (i.e. designed not to convey sanitary sewage, combined sewage) within the Lake Huron and the St. Clair Region and Ausable Bayfield watersheds. The Municipal SWM System consists of storm sewers, culverts, ditches, Stormwater Management Facilities and outlets.

This ECA covers the entire Municipal SWM System owned and operated by the Municipality of Lambton Shores. This ECA does not cover municipally or privately owned sewage works on industrial or commercial land

Sewage Collection System

1.2 The Authorized System comprises:

1.2.1 The Sewage Works described and depicted in each document or file identified in column 1 of Table B1.

Table B1: Infrastructure Map

Column 1 Document or File Name	Column 2 Date
Municipality of Lambton Shores Municipal Stormwater Management System	February 2022
Municipality of Lambton Shores Municipal Stormwater Management System - Forest	February 2022
Municipality of Lambton Shores Municipal Stormwater Management System – Arkona	February 2022
Municipality of Lambton Shores Municipal Stormwater Management System – Thedford	February 2022

Municipality of Lambton Shores Municipal Stormwater Management System – Deer Run Subdivision	February 2022
Municipality of Lambton Shores Municipal Stormwater Management System – Grand Bend	February 2022

1.2.2 Storm Sewers, Stormwater Management Facilities, stormwater pumping stations and Sewage Works associated with a Third Pipe Collection System that have been added, modified, replaced, or extended through authorization provided in a Schedule C Notice respecting this Approval, where Completion occurs on or after the date identified in column 2 of Table B1 for each document or file identified in column 1.

1.2.3 Storm Sewers, Stormwater Management Facilities and Sewage Works associated with a Third Pipe Collection System that have been added, modified, replaced, or extended through authorization provided by Schedule D of this Approval, where Completion occurs on or after the date identified in column 2 of Table B1 for each document or file identified in column 1.

1.2.4 Any Sewage Works described in conditions 1.3 through 1.8 below.

Stormwater Collection System

1.3 Categorization of the Authorized System at the date of issue of this Approval is as follows:

Table B2. Stormwater Collection System by Diameter

System Type	Pipe Diameter (mm)	Length (km)	System Totals (km)
Storm Sewers	Up to 250	5.9	--
Storm Sewers	> 250 - 500	22.2	--
Storm Sewers	> 500 - 1050	9.9	--
Storm Sewers	> 1050	1.7	--
Total Storm Sewers	--	--	39.7
Ditches / Swales	--	--	4
Total System Length (km)	--	--	43.7

Table B3. Summary of Stormwater Management Facilities by Type and Pumping Stations

Facility Type	Basic Treatment for Suspended Solids*	Normal Treatment for Suspended Solids *	Enhanced Treatment for Suspended Solids *	Other Treatment Level for Suspended Solids**	Total Quality Control	Total Quantity Control	Total Number of Facilities
LID Facilities - Retention (infiltration,	N/A	N/A	1	N/A	1	N/A	1

evapotranspiration, harvest)							
LID Facilities - Filtration	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Stormwater Management Ponds – Wet (includes wetlands, hybrids)	N/A	N/A	4	N/A	4	N/A	4
Stormwater Management Ponds - Dry	N/A			N/A	N/A	N/A	N/A
Super Pipe / Storage Facility	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Filtration MTD - Filter Unit	N/A	N/A	N/A	N/A	N/A		N/A
Sedimentation MTD - OGS	N/A	1	N/A	N/A	1		1
Pumping Stations							N/A
Other	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Number of Facilities	N/A	N/A	N/A	N/A	N/A	6	6

* Basic, normal, and enhanced treatment correspond to 60%, 70% and 80% suspended solids removal on an annual average long-term basis, respectively.

** Treatment levels below 60% suspended solids removal on an annual average long-term basis.

Table B4. Third Pipe Collection System				
Description	Pipe Diameter (mm)	Length (km)	Quantity	System Totals
Third Pipe Sewer	Up to 250	--	N/A	--
Third Pipe Sewer	> 250 - 500	--	N/A	--
Third Pipe Sewer	> 500	--	N/A	--
Total	--	--	--	Km
Other Infrastructure Components (e.g., storage tank)	N/A	N/A	--	--

Table B5. Sewage Works on Private Land that are part of the Municipal Stormwater Treatment Train*		
Description	Location	ECA # (if applicable)
N/A		

* Identifies privately owned Sewage Works that are not part of the Authorized System, but are part of a Stormwater Treatment Train

Stormwater Management Facilities

1.4 The following are Stormwater Management Facilities in the Authorized System:

7550 – SWM Wet Pond (Woodside Estates Subdivision)

Location	Location 43.08583, -81.99506
Watershed/Subwatershed	St. Clair Region Watershed / Plympton Shoreline Tributaries Subwatershed
Receiver of discharge	Discharges through Todd Drain to Hickory Creek
Outlet location	43.08557, -81.99523
Catchment Area	17.2 hectares
Level of Treatment for suspended solids	Level 1 Enhanced treatment for 80% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	The detention wet pond with a design permanent pool volume of 1,851 m3 and minimum liquid retention volume of 3,927 m3 for the treatment and disposal stormwater runoff.
Design Storm	Quantity: 100 yr storm; Quality: 2-yr storm
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 5278-9D2J4E, Issue Date: November 12, 2013
Reference Sewage Works as part of treatment train	N/A
Brief Description	One (1) 200 mm diameter HBI-8810 Hickenbottom Standpipe, discharging to Todd Drain, via 300 mm diameter storm sewer; one (1) 8 m wide overflow spillway to discharging onto the Todd Drain.
Receive Emergency Sanitary Overflows	No
Notes	N/A

4278 – SWM Wet Pond (East Glen Estates Subdivision)

Location	43.08048, -81.82884
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Ausable Subwatershed
Receiver of discharge	Discharges through Hobbs-McKenzie Drain to Ausable River
Outlet location	43.08061, -81.82937
Catchment Area	10.5 hectares
Level of Treatment for suspended solids	Level 1 Enhanced treatment for 80% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	The detention wet pond with a total extended detention volume of 620 m3 and a permanent pool volume of 620 m3 to provide post development peak flow controlled to pre development peak flow conditions
Design Storm	Quantity: 100 yr storm; Quality: 2-yr storm
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 5466-4ERQRM, Issue Date: December 22, 1999

Reference Sewage Works as part of treatment train	N/A
Brief Description	Stormwater management pond for quantity and quality control outletting to the Hobbs Mckenzie Municipal drain
Receive Emergency Sanitary Overflows	No
Notes	N/A

7297 – SWM Wet Pond (Erin place Subdivision)

Location	43.30538, -81.75617
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill Subwatershed
Receiver of discharge	Discharges through Desjardine Drain to Ausable River and Lake Huron
Outlet location	43.30599, -81.75488
Catchment Area	4.7 hectares
Level of Treatment for suspended solids	Level 1 Enhanced treatment for 80% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	The detention wet pond has a permanent pool volume of 735 m3, an active storage volume of 1,600 m3 complete with inlet structure, sediment forebay and outlet structures.
Design Storm	Quantity: 100 yr storm; Quality: 2-yr storm
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 3025-76YRNC, Issue Date: September 19, 2007
Reference Sewage Works as part of treatment train	N/A
Brief Description	200 mm intake to control the extended detention level, a single catchbasin equipped with an inlet control device (IPEX Type B or equivalent) to control the active storage level, a second single cathbasin to be set at top of grate elevation; all tree outlet structures allowing a maximum discharge rate of 0.282 m3/s and discharging to a double catchbasin manhole equipped with an emergency spillway and an overflow spillway discharging via 825 mm diameter stormsewer.
Receive Emergency Sanitary Overflows	No
Notes	N/A

7321 – SWM Wet Pond (Rice Subdivision)

Location	43.31205, -81.74860
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill

	Subwatershed
Receiver of discharge	Discharges through Simmons/Pergel Drain to Ausable River and Lake Huron
Outlet location	43.31219, -81.75050
Catchment Area	21.67 hectares
Level of Treatment for suspended solids	Level 1 Enhanced treatment for 80% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	A hybrid wet pond/wetland with approximate permanent pool volume of 2,532 m3, total active storage volume of approximately 12,367 m3 and a total storage volume of approximately 14,899 m3.
Design Storm	Quantity: 100 yr storm; Quality: 2-yr storm
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 6121-8K5HF9, Issue Date: September 23, 2011
Reference Sewage Works as part of treatment train	N/A
Brief Description	One (1) 900mm diameter inlet to the forebay and a 4.0m wide overflow spillway into the forebay; a sediment forebay and forebay berm; 3.0 m wide stone dust access road ; one (1) ditch inlet quality control structure consisting of a 140 mm diameter orifice, discharging via 300 mm diameter storm pipe to a quantity control structure; one (1) ditch inlet quantity control structure consisting of a 320 mm diameter orifice, discharging to Simmons/Pergel Drain, via 525 mm diameter storm sewer; one (1) 10 m wide overflow spillway to discharging onto the Simmons/Pergel Drain.
Receive Emergency Sanitary Overflows	No
Notes	N/A

Asset TBD – GOD to Simmons Drain Outlet

Location	43.31234, -81.75065
Watershed/Subwatershed	Ausable Bayfield Region Watershed / Lower Parkhill Subwatershed
Receiver of discharge	Discharges through Simmons/Pergel Drain to Ausable River and Lake Huron
Outlet location	43.31225, -81.75057
Catchment Area	2.01 hectares
Level of Treatment for suspended solids	Level 2 Normal treatment for 73% long-term suspended solid removal.
Treatment for other Contaminants, as required	N/A
Level of Volume control	Sediment storage capacity of 3,000 litres, an oil storage capacity of 915 litres, a total holding capacity of 4,070 litres,

	and a maximum treatment flow rate of 18 litres per second
Design Storm	N/A
Reference ECA(s)	ENVIRONMENTAL COMPLIANCE APPROVAL NUMBER 8210-AWZPKJ, Issue Date: March 29, 2018 Reference Works as part of treatment train
Reference Sewage Works as part of treatment train	N/A
Brief Description	one (1) oil/grit separator, model Stormceptor STC 750 receives runoff generated from Creekside Place and discharges to Simmons/Pergel Drain.
Receive Emergency Sanitary Overflows	No
Notes	N/A

Stormwater Pumping Stations

1.5 The following are identified Stormwater pumping stations in the Authorized System:

[Stormwater Pumping Station Name]

Asset ID and Name	N/A
Site Location	
Watershed/Subwatershed	
Latitude and Longitude	
Coordinates (optional)	
Description	
Pumping Station Capacity	
Equipment	
Emergency Storage	
Equipment: Associated controls and Appurtenances	
Overflow	
Standby Power	
Notes	

Third Pipe Collection System

1.6 The following are identified third pipe systems in the Authorized System.

[*Asset ID* (e.g., Third Pipe 10]

Asset ID and Name	

Location	N/A
Watershed/Subwatershed	
Receiver of discharge	
Outlet location	
Catchment Area	
Treatment, if applicable	
Reference ECA(s), if applicable	
Brief Description	
Notes	

Other Works:

1.7 The following works are part of Authorized System:

Table B6: Other Works			
Column 1 Asset ID / Name	Column 2 Site Location (Latitude & Longitude)	Column 3 Component	Column 4 Description
N/A			

Developer-Operated Facilities:

1.8 The following facilities are part of the Authorized System, have been constructed, and are being operated by the developer under the authority of an agreement entered into with the Owner of the system.

Table B7: Developer-Operated Facilities			
Asset ID	Type of Facility	Location	Developer Name
N/A			

1.9 The Owner shall notify the Director, using the Director Notification Form, within thirty (30) days where the operation of any Facility identified in Table B7 has been:

1.9.1 Incorporated into the overall Stormwater Management System and assumed by an Operating Authority identified in Schedule B of this Approval.

1.9.2 Has been transferred from the developer identified in Table B7 to another party.

Transitional – Facilities with Individual ECAs

1.10 The following Facilities are connected to the Authorized System, but ownership has not been assumed by the Owner. These Sewage Works are not part of the Authorized System and will continue to have separate ECAs until the Facilities are assumed by the Owner.

Table B8: Facilities with Individual ECAs				
Asset ID	Type of Facility	Location	ECA Number	Developer Name
N/A				

1.11 The Owner shall notify the Director, using the Director Notification Form, within thirty (30) days where the ownership of any Facility identified in Table B8 has been assumed by the Owner.

1.12 The Director Notification required in condition 1.11 shall include:

1.12.1 A request from the developer to revoke the ECA identified in Table B8; or

1.12.2 A copy of an agreement or other documentation that demonstrates that the municipality has assumed ownership of the Facility and that the ECA identified in Table B8 should be revoked.

Schedule C: List of Notices of Amendment to this ECA: Additional Approved Sewage Works

System Owner	**Lambton Shores, The Corporation of the Municipality of**
ECA Number	**049-S701**
System Name	**Lambton Shores Municipal Stormwater System**
ECA Issue Date	**November 7th, 2022**

1.0 General

1.1 Table C1 provides a list of all notices of amendment to this Approval that have been issued pursuant to clause 20.3(1) of the EPA that impose terms and conditions in respect of the Authorized System after consideration of an application by the Director (Schedule C Notices).

Table C1: Schedule C Notices

Column 1 Issue #	Column 2 Issue Date	Column 3 Description	Column 4 Status	Column 5 DN#
N/A	N/A	N/A	N/A	N/A

Schedule D: General

System Owner	**Lambton Shores, The Corporation of the Municipality of**
ECA Number	**049-S701**
System Name	**Lambton Shores Municipal Stormwater System**
ECA Issue Date	**November 7th, 2022**

1.0 Definitions

1.1 For the purpose of this Approval, the following definitions apply:

"Adverse Effect(s)" has the same meaning as defined in section 1 of the EPA.

"Alteration(s)" includes the following, in respect of the Authorized System, but does not include repairs to the system:

a) An extension of the system,

b) A replacement or retirement of part of the system, or

c) A modification of, addition to, or enlargement of the system.

"Appendix A" means Appendix A of this Approval.

"Approval" means this Environmental Compliance Approval including any Schedules attached to it.

"Appurtenance(s)" has the same meaning as defined in O. Reg. 525/98 (Approval Exemptions) made under the OWRA.

"Authorized System" means the Sewage Works comprising the Municipal Stormwater Management System authorized under this Approval".

"Class Environmental Assessment Project" means an Undertaking that does not require any further approval under the EAA if the proponent complies with the process set out in the Municipal Engineers Association Class Environmental Assessment document, (Municipal Class Environmental Assessment approved by the Lieutenant Governor in Council on October 4, 2000 under Order in Council 1923/2000), as amended from time to time.

"Combined Sewer(s)" means pipes that collect and transmit both sanitary Sewage and other Sewage from residential, commercial, institutional, and

industrial buildings and facilities and Stormwater through a single-pipe system, but does not include Nominally Separate Sewers.

“Completion” means substantial performance as described in s.2 (1) of the *Construction Act*, R.S.O. 1990, c. C.30.

“Compound of Concern” means a Contaminant that is discharged from the Facility in an amount that is not negligible.

“Contaminant” has the same meaning as defined in section 1 of the EPA.

“CSO” means a combined sewer overflow which is a discharge to the environment at designated location(s) from a Combined Sewer or Partially Separated Sewer that usually occurs as a result of precipitation when the capacity of the Sewer is exceeded. An intervening time of twelve hours or greater separating a CSO from the last prior CSO at the same location is considered to separate one overflow Event from another.

"CWA" means the *Clean Water Act*, R.S.O. 2006, c.22.

“Design Criteria” means the design criteria set out in the Ministry’s publication “Design Criteria for Sanitary Sewers, Storm Sewers and Forcemains for Alterations Authorized under Environmental Compliance Approval”, (as amended from time to time).

“Design Guidelines for Sewage Works” means the Ministry document titled “Design Guidelines for Sewage Works”, 2008 (as amended from time to time).

"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of EPA (Environmental Compliance Approvals).

“Director Notification Form” means the most recent version of the Ministry form titled Director Notification – Alterations to a Municipal Stormwater Management System, as obtained directly from the Ministry or from the Ministry’s website.

"District Manager" means the district manager or a designated representative of the Local Ministry Office.

"EAA" means the *Environmental Assessment Act*, R.S.O. 1990, c. E.18.

"EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19.

“ESC” means erosion and sediment control.

“Facility” means the entire operation located on the property where the Sewage Works or equipment is located.

“Form SW1” means the most recent version of the Ministry form titled Record of Future Alteration Authorized for Storm Sewers/Ditches/Culverts as obtained directly from the Ministry or from the Ministry’s website.

“Form SW2” means the most recent version of the Ministry form titled Record of Future Alteration Authorized for Stormwater Management Facilities as obtained directly from the Ministry or from the Ministry’s website.

“Form SW3” means the most recent version of the Ministry form titled Record of Future Alteration Authorized for Third Pipe Collection Systems as obtained directly from the Ministry or from the Ministry’s website.

"Licensed Engineering Practitioner” means a person who holds a licence, limited licence, or temporary licence under the *Ontario Professional Engineers Act* R.S.O. 1990, c. P.28.

"LID" means “low impact development” a Stormwater management strategy that seeks to mitigate the impacts of increased runoff and Stormwater pollution by managing runoff as close to its source as possible. LID comprises a set of site design strategies that minimize runoff and distributed, small scale structural practices that mimic natural or predevelopment hydrology through the processes of infiltration, evapotranspiration, harvesting, filtration, and detention of Stormwater.

“Local Ministry Office” means the local office of the Ministry responsible for the geographic area where the Authorized System is located.

"Minister" means the Minister of the Ministry or such other member of the Executive Council as may be assigned the administration of the EPA and OWRA under the *Executive Council Act*, R.S.O. 1990, c. E.25.

"Ministry" means the Ministry of the Minister and includes all employees or other persons acting on its behalf.

“Monitoring Plan” means the monitoring plan prepared and maintained by the Owner under condition 4.1 in Schedule E of this Approval.

“MTD” means manufactured treatment device.

“Municipal Drain” has the same meaning as drainage works as defined in section 1 of the *Drainage Act* R.S.O. 1990, c. D.17.

“Municipal Drainage Engineer’s Report” means a report signed by a drainage engineer employed or contracted by a municipality and approved in writing by municipal council or equivalent.

“Municipal Sewage Collection System” means all Sewage Works, located in the geographical area of a municipality, that collect and transmit sanitary Sewage and are owned, or may be owned pursuant to an agreement with a municipality entered into under the *Planning Act* or *Development Charges Act*, 1997, by:

a) A municipality, a municipal service board established under the *Municipal Act*, 2001 or a city board established under the *City of Toronto Act*, 2006; or

b) A corporation established under sections 9, 10, and 11 of the *Municipal Act*, 2001 in accordance with section 203 of that Act or under sections 7 and 8 of the *City of Toronto Act*, 2006 in accordance with sections 148 and 154 of that Act.

“**Municipal Stormwater Management System”** means all Sewage Works, located in the geographical area of a municipality, that collect, transmit, or treat Stormwater and are owned, or may be owned pursuant to an agreement entered into under the *Planning Act* or *Development Charges Act*, 1997, by:

a) A municipality, a municipal service board established under the *Municipal Act*, 2001 or a city board established under the *City of Toronto Act*, 2006; or

b) A corporation established under sections 9, 10, and 11 of the *Municipal Act*, 2001 in accordance with section 203 of that Act or under sections 7 and 8 of the *City of Toronto Act*, 2006 in accordance with sections 148 and 154 of that Act.

“Natural Environment” has the same meaning as defined in section 1 of the EPA.

"Nominally Separate Sewer(s)" mean Separate Sewers that also have connections from roof leaders and foundation drains, and are not considered to be Combined Sewers.

“OGS” means Oil and Grit Separators;

“Operating Authority” means, in respect of the Authorized System, the person, entity, or assignee that is given responsibility by the Owner for the operation, management, maintenance, or Alteration of the Authorized System, or a portion of the Authorized System.

"Owner" for the purposes of this Approval means the Corporation of the Municipality of Lambton Shores, and includes its successors and assigns.

"OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40.

"O&M Manual" means the operation and maintenance manual prepared and maintained by the Owner under condition 3.2 in Schedule E of this Approval.

"Partially Separated Sewer(s)" means Combined Sewers that have been retrofitted to transmit sanitary Sewage but in which roof leaders or foundation drains still contribute Stormwater inflow to the Partially Separated Sewer.

"Pre-development" means the more stringent of a site's:

a) Existing condition prior to proposed development or construction activities; or

b) Condition as defined by the local municipality.

"Prescribed Person" means a person prescribed in O. Reg. 208/19 (Environmental Compliance Approval in Respect of Sewage Works) for the purpose of ss. 20.6 (1) of the EPA, and where the alteration, extension, enlargement, or replacement is carried out under an agreement with the Owner.

"**Privately Owned Stormwater Works"** means Stormwater Sewage Works on private land that are privately owned and, while not part of the Authorized System, are considered part of a Stormwater Treatment Train.

"Qualified Person (QP)" means persons who have obtained the relevant education and training and have demonstrated experience and expertise in the areas relating to the work required to be carried out by this Approval.

"Schedule C Notice(s)" means a notice(s) of amendment to this Approval issued pursuant to clause 20.3(1) of the EPA that imposes terms and conditions in respect of the Authorized System after consideration of an application by the Director.

"Separate Sewer(s)" means pipes that collect and transmit sanitary Sewage and other Sewage from residential, commercial, institutional, and industrial buildings.

"Sewage" has the same meaning as defined in section 1 of the OWRA.

"Sewage Works" has the same meaning as defined in section 1 of the OWRA.

“Sewer” has the same meaning as defined in section 1 of O. Reg. 525/98 under the OWRA.

"Significant Drinking Water Threat" has the same meaning as defined in section 2 of the CWA.

“Significant Snowmelt Event(s)” means the melting of snow at a rate which adversely affects the performance and function of the Authorized System and/or the Sewage Treatment Plant(s) identified in Schedule A of this Approval.

“Significant Storm Event(s)” means a minimum of 25 mm of rain in any 24 hours period.

“Source Protection Authority” has the same meaning as defined in section 2 of the CWA.

"Source Protection Plan" means a drinking water source protection plan prepared under the CWA.

“SSO” means a sanitary sewer overflow which is a discharge of Sewage from a Separate Sewer or Nominally Separate Sewer to the environment from designated location(s) in the Authorized System.

“Standard Operating Policy for Sewage Works” means the standard operating policy developed by the Ministry to assist in the implementation of Source Protection Plan policies related to Sewage Works and providing minimum design and operational standards and considerations to mitigate risks to sources of drinking water, as amended from time to time.

“Storm Sewer” means Sewers that collect and transmit, but not exfiltrate or lose by design, Stormwater resulting from precipitation and snowmelt.

“Stormwater” means rainwater runoff, water runoff from roofs, snowmelt, and surface runoff.

“Stormwater Management Facility(ies)” means a Facility for the treatment, retention, infiltration, or control of Stormwater.

“Stormwater Management Planning and Design Manual” means the Ministry document titled “Stormwater Management Planning and Design Manual”, 2003 (as amended from time to time).

“Stormwater Treatment Train” means a series of Stormwater Management Facilities designed to meet Stormwater management objectives (e.g., Appendix A) for a given area, and can consist of a combination of MTDs, LIDs and end-of-pipe controls.

“TRCA” means the Toronto Region Conservation Authority.

“Third Pipe Collection System” means Sewage Works designed to collect and transmit foundation drainage and/or groundwater to a receiving surface water or dry well;

"Undertaking" has the same meaning as in the EAA.

“Vulnerable Area(s)” has the same meaning as in the CWA.

2.0 General Conditions

2.1 The works comprising the Authorized System shall be constructed, installed, used, operated, maintained, replaced, or retired in accordance with the conditions of this Approval, which includes the following Schedules:

Schedule A – System Information

Schedule B – Municipal Stormwater Management System Description

Schedule C – List of Notices of Amendment to this ECA

Schedule D – General

Schedule E – Operating Conditions

Schedule F – Residue Management

Appendix A – Stormwater Management Criteria

2.2 The issuance of this Approval does not negate the requirements of other regulatory bodies, which includes but is not limited to, the Ministry of Northern Development, Mines, Natural Resources and Forestry and the local Conservation Authority.

2.3 Where there is a conflict between a provision of any document referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence. Where there is a conflict between the information in a Schedule C Notice and another section of this Approval, the document bearing the most recent date shall prevail.

2.4 The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Authorized System is provided with a print or electronic copy of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

2.5 The conditions of this Approval are severable. If any condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

3.0 Alterations to the Municipal Stormwater Management System

3.1 For greater certainty, the Alterations authorized under this Approval are limited to Sewage Works comprising the Authorized System which does not include municipally or Privately Owned Stormwater Works:

3.1.1 On industrial, commercial, or institutional land;

3.1.2 Serving a single parcel of land, unless the stormwater management facility is located on a municipally owned park or community center;

3.1.3 That are operated as waste disposal sites defined under the EPA or snow dump / melt facilities; or,

3.1.4 That propose to collect, store, treat, or discharge stormwater containing substances or pollutants (other than Total Suspended Solids, or oil and grease) detrimental to the environment or human health.

3.2 Any Schedule C Notice shall provide authority to alter the Authorized System in accordance with the conditions of this Approval.

3.3 All Schedule C Notices issued by the Director for the Municipal Stormwater Management System shall form part of this Approval.

3.4 The Owner and a Prescribed Person shall ensure that the documentation required through conditions in this Approval and the documentation required in the Design Criteria are prepared for any Alteration of the Authorized System.

3.5 The Owner shall notify the Director within thirty (30) calendar days of placing into service or Completion of any Alteration of the Authorized System which had been authorized:

3.5.1 Under Schedule D to this Approval where the Alteration results in a change to Sewage Works specifically described in Schedule B of this Approval;

3.5.2 Through a Schedule C Notice respecting Sewage Works other than Storm Sewers; or

3.5.3 Through another approval that was issued under the EPA prior to the issue date of this Approval.

3.6 The notification requirements set out in condition 3.5 do not apply to any Alteration in respect of the Authorized System which:

3.6.1 Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98;

3.6.2 Constitutes maintenance or repair of the Authorized System; or

3.6.3 Is a Storm Sewer, ditch, or culvert authorized by condition 4.1 of Schedule D of this Approval.

3.7 The Owner shall notify the Director within ninety (90) calendar days of:

3.7.1 The discovery of existing Sewage Works not described or depicted in Schedule B, or

3.7.2 Additional or revised information becoming available for any Sewage Works described in Schedule B of this Approval.

3.8 The notifications required in condition 3.5 and 3.7 shall be submitted to the Director using the Director Notification Form.

3.9 The Owner shall ensure that any chemicals, coagulants, or polymers used in the stormwater management system have obtained written approval from the Director prior to use, unless required for spill control or spill clean-up.

3.10 The Owner shall ensure that an ESC plan is prepared, and temporary ESC measures are installed in advance of and maintained during any construction activity on the Authorized System, subject to the following conditions:

3.10.1 Inspections of ESC measures are to be conducted at a frequency specified per the ESC plan, for dry weather periods (active and inactive construction phases), after Significant Storm Events and Significant Snowmelt Events, and after any extreme weather events.

3.10.2 Any deficiencies shall be addressed, and any required maintenance actions(s) shall be undertaken as soon as practicable once they have been identified.

3.10.3 Inspections and maintenance of the temporary ESC measures shall continue until they are no longer required.

3.11 The Owner shall ensure that records of inspections required by this Approval during any construction activity, including those required under condition 3.10:

3.11.1 Include the name of the inspector, date of inspection, visual observations, and the remedial measures, if any, undertaken to maintain the temporary ESC measures.

3.11.2 Be retained with records relating to the Alteration that the construction relates to, such as the form required in conditions 4.4.1, 5.5.1, and 6.2.1 of Schedule D, or the Schedule C Notice.

3.11.3 Be retrievable and made available to the Ministry upon request.

3.12 The document(s) or file(s) referenced in Table B1 of Schedule B of this Approval shall:

3.12.1 Be retained by the Owner;

3.12.2 Include at a minimum:

a) Identification of Storm Sewers, which shall include the following information:

i Location relative to street names or easements; and

ii Sewer diameters.

b) Identification of existing municipally owned Stormwater Sewage Works, including but not limited to ditches, swales, culverts, outlets, Stormwater Management Facilities, sedimentation MTD (for example oil grit separators), filtration MTD, LID, end of pipe controls, Third Pipe Collection Systems, and pumping stations, including any applicable Asset IDs.

c) Identification of the main tributaries and receiving water bodies to that the Sewage Works discharge to.

d) Delineation of municipal, watershed, and subwatershed boundaries, as available.

e) Identification of the storm sewersheds for each outlet.

f) Identification of any source protection Vulnerable Areas.

g) Identification of any Sewage Works that receive SSOs or CSOs.

3.12.3 Be updated to include:

a) Alterations authorized under Schedule D of this Approval or through a Schedule C Notice within twelve (12) months of the Alteration being placed into service.

b) Updates to information contained in the document(s) or files(s) not associated with an Alteration within twelve (12) months of becoming aware of the updated information.

3.13 An Alteration is not authorized under Schedule D of this ECA for projects that impact Indigenous treaty rights or asserted rights where:

3.13.1 The project is on Crown land or would alter access to Crown land;

3.13.2 The project is in an open or forested area where hunting, trapping or plant gathering occur;

3.13.3 The project involves the clearing of forested land unless the clearing has been authorized by relevant municipal, provincial, or federal authorities, where applicable;

3.13.4 The project alters access to a water body;

3.13.5 The proponent is aware of any concerns from Indigenous communities about the proposed project and these concerns have not been resolved; or,

3.13.6 Conditions respecting Indigenous consultation in relation to the project were placed in another permit or approval and have not been met.

3.14 No less than 60 days prior to construction associated with an Alteration the Director may notify the Owner in writing that a project is not authorized through Schedule D of this ECA where:

3.14.1 Concerns regarding treaty rights or asserted rights have been raised by one or more Indigenous communities that may be impacted by the Alteration; or

3.14.2 The Director believes that it is in the public interest due to site specific, system specific, or project specific considerations.

3.15 Where an Alteration is not authorized under condition 3.13 or 3.14 above:

3.15.1 An application respecting the Alteration shall be submitted to the Ministry; and,

3.15.2 The Alteration shall not proceed unless:

a) Approval for the Alteration is granted by the Ministry (i.e., a Schedule C Notice); or,

b) The Director provides written notice that the Alteration may proceed in accordance with conditions in Schedule D of this ECA.

4.0 Authorizations of Future Alterations to Storm Sewers, Ditches, or Culverts - Additions, Modifications, Replacements and Extensions

4.1 The Owner or a Prescribed Person may alter the Authorized System by adding, modifying, replacing, or extending a Storm Sewer, ditch, or culvert within the Authorized System subject to the following conditions and conditions 4.2 and 4.3 below:

4.1.1 The design of the addition, modification, replacement, or extension:

a) Has been prepared by a Licensed Engineering Practitioner;

b) Has been designed only to collect and transmit Stormwater;

c) Has not been designed to collect or treat any sanitary Sewage;

d) Has not been designed to collect, store, treat, control, or manage groundwater, unless for the purpose of foundation drains, road subdrains, or LIDs;

e) Satisfies the Design Criteria or any municipal criteria that have been established that exceed the minimum requirements set out in the Design Criteria;

f) Satisfies the standards set out in Ontario Provincial Standard Specifications (OPSS) and Ontario Provincial Standard Drawings (OPSD), as applicable to ditches and culverts;

g) Is consistent with or otherwise addresses the design objectives contained within the Design Guidelines for Sewage Works;

h) Is planned, designed, and built to be consistent with the Stormwater Management Planning and Design Guidance Manual. If there is a conflict with Appendix A of this Approval, then Appendix A shall prevail; and

i) Includes design considerations to protect sources of drinking water, including those set out in the Standard Operating Policy for Sewage Works, and any applicable local Source Protection Plan policies.

4.1.2 The addition, modification, replacement, or extension shall be designed so that it will:

a) Not adversely affect the ability to maintain a gravity flow in the Authorized System without overflowing or increase surcharging any maintenance holes as per design; and

b) Provide smooth flow transition to existing gravity Storm Sewers;

4.1.3 The Alteration shall not result in:

a) Adverse Effects; or

b) A deterioration of the approved effluent quality or quantity of downstream Stormwater Management Facilities which results in not being able to achieve the overall Stormwater performance criteria per Appendix A.

4.1.4 The Storm Sewer, ditch or culvert addition, modification, replacement, or extension is wholly located within the municipal boundary over which the Owner has jurisdiction or there is a written agreement in place with the adjacent property owner respecting the Alteration and resulting Sewage Works.

4.1.5 The Owner consents in writing to the addition, modification, replacement, or extension.

4.1.6 A Licensed Engineering Practitioner has verified in writing that the addition, modification, replacement, or extension meets the requirements of conditions 4.1.1 a) to h), 4.3.9, and 4.3.10.

4.1.7 The Owner has verified in writing that the addition, modification, replacement, or extension has complied with inspection and testing requirements in the Design Criteria.

4.1.8 The Owner has verified in writing that the addition, modification, replacement, or extension meets the requirements of conditions 4.1.1 i), 4.1.2 to 4.1.6, 4.3.7, and 7.2.

4.2 The addition of Storm Sewers or ditches can be constructed but not operated until the Stormwater Management Facilities required to service the new Storm Sewers or ditches are in operation.

4.3 The Owner or a Prescribed Person is not authorized to undertake an Alteration described above in condition 4.1 where the Alteration relates to the addition, modification, replacement, or extension of a Storm Sewer that:

4.3.1 Passes under or through a body of surface water, unless trenchless construction methods are used or the local Conservation Authority has authorized an alternative construction method.

4.3.2 Has a nominal diameter greater than 2,400 mm, or equivalent sizing.

4.3.3 Is a Combined Sewer.

4.3.4 Is a concrete channel.

4.3.5 Is designed to, at any time, transmit, store, or control sanitary Sewage.

4.3.6 Converts rural road cross section ditches to curb, gutter, and Storm Sewers if the Stormwater volume and/or peak flow is increased and no water quality treatment is planned or demonstrated to be achieved, in accordance with this Approval and Appendix A, to offset the increase in Stormwater.

4.3.7 Results in new discharges or increased discharges to a Municipal Drain without written approval by the Owner and a signed Municipal Drainage Engineer's Report in accordance with the *Drainage Act* R.S.O. 1990, c. D.17.

4.3.8 Establishes a new outlet with direct discharge into the Natural Environment without monitoring in accordance with this Approval and without achieving the requirements set in Appendix A.

4.3.9 Increases Stormwater flow of an existing Storm Sewer or ditch without achieving water quality criteria set in Appendix A in accordance with this Approval unless the existing downstream Municipal Stormwater Management System has sufficient residual transmission and treatment capacity to accommodate the additional Stormwater.

4.3.10 Increases local hydraulic capacity of an existing Storm Sewer or ditch to accommodate new Stormwater flows unless the existing downstream Municipal Stormwater Management System has sufficient residual hydraulic capacity to accommodate the additional Stormwater.

4.3.11 Connects to another Municipal Stormwater Management System, unless:

a) Prior to construction, the Owner of the Authorized System obtains written consent from the Owner or Owner's delegate of the Municipal Stormwater System being connected to; and

b) The Owner of the Authorized System retains a copy of the written consent from the Owner or Owner's delegate of the Municipal Stormwater Management System being connected

to as part of the record that is recorded and retained under condition 4.4.

4.3.12 Is part of an Undertaking in respect of which:

a) A request under s.16(6) of the EAA has been made, namely a request that the Minister make an order under s.16;

b) The Minister has made an order under s.16; or

c) The Director under that EAA has given notice under s.16.1 (2) that the Minister is considering making an order under s.16.

4.4 The consents and verifications required in conditions 4.1 and 4.3, if applicable, shall be:

4.4.1 Recorded on SW1, prior to the Storm Sewer, ditch, or culvert addition, modification, replacement, or extension being placed into service; and

4.4.2 Retained for a period of at least ten (10) years by the Owner.

4.5 For greater certainty, the verification requirements set out in condition 4.4 do not apply to any Alteration in respect of the Authorized System which:

4.5.1 Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98; or

4.5.2 Constitutes maintenance or repair of the Authorized System.

5.0 Authorizations of Future Alterations to Stormwater Management Facilities - Additions, Modifications, Replacement, and Extensions

5.1 Subject to conditions 5.2 and 5.3, the Owner or a Prescribed Person may alter the Stormwater Management Facilities in the Authorized System by adding, modifying, replacing, or extending the following components:

5.1.1 Rooftop storage

5.1.2 Parking lot storage

5.1.3 Superpipe storage

5.1.4 Reduced lot grading

5.1.5 Roof leader to ponding area

5.1.6 Roof leader to soakaway pit

5.1.7 Infiltration trench

5.1.8 Engineered grassed swales / bioswale

5.1.9 Pervious pipes

5.1.10 Pervious catchbasins

5.1.11 Vegetated filter strips

5.1.12 Natural buffer strips

5.1.13 Green roofs/Rooftop gardens

5.1.14 Wet pond

5.1.15 Engineered wetland

5.1.16 Dry pond

5.1.17 Hybrid Facility

5.1.18 Infiltration basin

5.1.19 Filtration MTD

5.1.20 Sedimentation MTD - OGS

5.1.21 LID that relies on one or more of the following mechanisms to achieve treatment and control:

a) Evapotranspiration;

b) Infiltration into the ground; or

c) Filtration.

5.1.22 Any other Stormwater Management Facilities where the Director has provided authorization in writing to proceed with the Alteration.

5.2 Any Alteration to the Authorized System authorized under condition 5.1 is subject to the following conditions:

5.2.1 The design of the Alteration shall:

a) Be prepared by a Licensed Engineering Practitioner;

b) Be designed only to collect, receive, treat, or control only Stormwater and has not been designed to collect, receive, treat, or control sanitary Sewage;

c) Is planned, designed, and built to be consistent with the Stormwater Management Planning and Design Guidance Manual. If there is a conflict with Appendix A of this Approval, then Appendix A shall prevail;

d) Satisfy the Design Criteria or any municipal criteria that have been established that exceed the minimum requirements set out in the Design Criteria;

e) Be part of a Stormwater Treatment Train approach that satisfies the requirements outlined in Appendix A, or transmits Stormwater to a Stormwater Management Facility that satisfies the requirements outlined in Appendix A;

f) Includes an outlet or an emergency overflow for the Sewage Works, with the verification of the location, route, and capacity of the receiving major system to accommodate overflows; and

g) Include design considerations to protect sources of drinking water, including those set out in the Standard Operating Policy for Sewage Works and any applicable local Source Protection Plan policies.

5.2.2 The Alteration shall not result in:

a) Adverse Effects; or

b) A deterioration on the approved effluent quality or quantity of downstream Stormwater Management Facilities which results in not being able to achieve the overall Stormwater performance criteria per Appendix A.

5.2.3 The Alteration may incorporate co-benefits, but in doing so shall not diminish functionality or efficiency of any Stormwater Management Facility(ies) that may be impacted by the Alteration.

5.2.4 Any new sedimentation MTD that is part of the Alteration shall meet the following requirements:

a) Tested in accordance with the TRCA protocol Procedure for Laboratory Testing of OGSs and testing data verified in accordance with the ISO 14034 Environmental Technology Verification (ETV) protocol. The suspended solids removal claimed for the sedimentation MTD in achieving the water

quality criteria in Appendix A, and the sizing methodology used to determine the appropriate sedimentation MTD dimensions for the particular site, shall be based on the verified removal efficiency for all particle size fractions comprising the particle size distribution specified within the testing protocol or a particle size distribution approved by the Director.

b) Using the verified sediment removal efficiencies for the respective surface loading rates specified in the testing protocol, the sedimentation MTD sizing methodology shall use linear interpolation to calculate sediment removal efficiencies for surface loading rates that lie between the specified surface loading rates. For surface loading rates less than the lowest specified and tested surface loading rate, the sediment removal efficiency shall be assumed to be identical to the verified removal efficiency for the lowest specified and tested surface loading rate. Where available, 15 min rainfall stations shall be used for sizing the sedimentation MTD.

c) When two or more sedimentation MTD are installed in series, no additional sediment removal credit shall be applied beyond the sediment removal credit of the largest device in the series.

d) The sediment removal rate at the specified surface loading rates determined for the tested full scale, commercially available MTD may be applied to similar MTDs of smaller or larger size by proper scaling. Scaling the performance results of the tested MTD to other model sizes without completing additional testing is acceptable provided that:

    i The claimed sediment removal efficiencies for the similar MTD are the same or lower than the tested MTD at identical surface loading rates; and

    ii The similar MTD is scaled geometrically proportional to the tested unit in all inside dimensions of length and width and a minimum of 85% proportional in depth.

e) The units must be installed in an off-line configuration if the unit had an effluent concentration greater than 25 mg/L at any of the surface loading rates conducted during the sediment scour and resuspension test as part of the ISO 14034 verification.

f) The sedimentation MTD should be sized for the highest suspended solids percent removal physically and

economically practicable, and used as a pre-treatment device in a treatment train designed to achieve the water quality criteria in Appendix A.

5.2.5 Any new filtration MTD that is part of the Alteration shall meet the following requirements:

a) Field tested and verified in accordance with a minimum of one of the following protocols:

i Washington State Technology Assessment Protocol - Ecology (TAPE) General Use Level Designation (GULD); and

1. Has ISO 14034 ETV verification to satisfy ETV Canada requirements;

2. The field monitoring data set used to obtain GULD certification should include a minimum of three (3) events that exceed 75th percentile rainfall event with at least one hour with an intensity of 6 mm/h or greater.

ii Another testing and verification method, where the Director has communicated acceptability in writing.

b) Where available, 15 min rainfall stations shall be used for sizing the filtration MTD using the rainfall intensity corresponding to 90% of annual runoff volume;

c) The SS removal rate determined for the tested full scale, commercially available filtration MTD, or single full-scale commercially available cartridge or filtration module, may be applied to other model sizes of that filtration MTD provided that appropriate scaling principles are applied. Scaling the tested filtration MTD or single full-scale commercially available cartridge or filtration module, to determine other model sizes and performance without completing additional testing is acceptable provided that:

i Depth of media, composition of media, and gradation of media remain constant.

ii The ratio of the maximum treatment flow rate to effective filtration treatment area (filter surface area) is the same or less than the tested filtration MTD;

iii The ratio of effective sedimentation treatment area to effective filtration treatment area is the same or greater than the tested filtration MTD; and

iv The ratio of wet volume to effective filtration treatment area is the same or greater than the tested filtration MTD.

5.2.6 When it is necessary to use Privately Owned Stormwater Works in the Stormwater Treatment Train to achieve Appendix A criteria as part of or as a result of an Alteration, the following conditions apply:

a) The Owner shall, through legal instruments or binding agreements, obtain the right to access, operate, and maintain the Privately Owned Sewage Works;

b) The Owner shall ensure that the right to access, operate and maintain the Privately Owned Sewage Works described in condition 5.2.6 a) above is maintained at all times that the works are in service and used to achieve Appendix A criteria.

c) The Owner shall ensure on-going operation and maintenance of the Privately Owned Stormwater Works;

d) The Owner ensures on-going operation and maintenance of the Privately Owned Stormwater Works; and

e) The Owner shall ensure that the Privately Owned Stormwater Works have obtained separate approval(s) under the EPA, as required.

5.2.7 The Alteration is wholly located within the municipal boundary over which the Owner has jurisdiction or there is a written agreement in place with the adjacent municipality respecting the Alteration and resulting Sewage Works.

5.2.8 The Owner consents in writing to the Alteration authorized under condition 5.1.

5.2.9 A Licensed Engineering Practitioner has verified in writing that the Alteration authorized under condition 5.1 meets the design requirements of conditions 5.2.1 a) to f), 5.2.4 and 5.2.5.

5.2.10 The Owner has verified in writing that the Alteration authorized under condition 5.1 meets the requirements of conditions 5.2.1 g), 5.2.2, 5.2.6 to 5.2.9, 5.3, 5.4, and 7.2.

5.3 The authorization in condition 5.1 does not apply:

5.3.1 To the establishment of a regional Stormwater management end-of-pipe flood control Facility;

5.3.2 Where the Alteration will result in new or increased discharges to a Municipal Drain without written approval by the Owner and a signed Municipal Drainage Engineer's Report in accordance with the *Drainage Act* R.S.O. 1990, c. D.17;

5.3.3 To the establishment of a new outlet with direct discharge into the Natural Environment without treatment and monitoring in accordance with this Approval;

5.3.4 Where the Alteration will service a drainage area greater than 65 ha;

5.3.5 Where the Alteration will result in conversion of an existing Stormwater Management Facility into another type of Stormwater Management Facility;

5.4 Any Alteration to LID or end-of-pipe Stormwater Management Facilities shall be inspected before operation of the Alteration to confirm construction as per specifications (including depth, as applicable).

5.5 The consents and verifications required in conditions 5.2.8 to 5.2.10 if applicable, shall be:

5.5.1 Recorded on Form SW2, prior to undertaking the Alteration; and

5.5.2 Retained for a period of at least ten (10) years by the Owner.

5.6 For greater certainty, the verification requirements set out in condition 5.5 do not apply to any Alteration in respect of the Authorized System which:

5.6.1 Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98; or

5.6.2 Constitutes maintenance or repair of the Authorized System.

6.0 Authorizations of Future Alterations for Third Pipe Collection System Additions, Modifications, Replacements and Extensions

6.1 The Owner or a Prescribed Person may alter the Authorized System by adding, modifying, replacing, or extending, and operating works comprising a municipal Third Pipe Collection System to collect foundation drainage and groundwater where:

6.1.1 The design of the Alteration:

a) Has been prepared by a Licensed Engineering Practitioner;

b) Is limited to collection, transmission, reuse and/or treatment of only foundation drainage and groundwater, and is not designed to collect or treat sanitary Sewage;

c) Satisfies the Design Criteria or any municipal criteria that have been established that exceed the minimum requirements set out in the Design Criteria; and

d) Is scoped so that the resulting Sewage Works are intended to:

i Primarily function for the non-potable reuse, as deemed acceptable by the Owner and the local health unit, of foundation drainage and/or groundwater, and no discharge to a Storm Sewer or Separate Sewer if there is excess volume that cannot be reused; and/or

ii Provide wetland recharge, in which case, collection of rooftop runoff will also be acceptable.

6.1.2 The Alteration is not located on a contaminated site, or where natural occurring conditions result in contaminated discharge, or where the site receives contaminated groundwater or foundation drainage from another site, unless the discharge being received has been remediated or treated prior to acceptance by the Third Pipe Collection System.

6.1.3 The Owner has undertaken a site assessment for water quantity, water quality, and hydrogeological site conditions regarding the Alteration.

6.1.4 The Alteration will not result in Adverse Effects.

6.1.5 The Alteration is wholly located within the municipal boundary over which the Owner has jurisdiction or there is a written agreement in place with the adjacent property owner respecting the Alteration and resulting Sewage Works.

6.1.6 The Owner consents in writing to the Alteration.

6.1.7 A Licensed Engineering Practitioner has verified in writing that the Alteration meets the requirements of condition 6.1.1.

6.1.8 The Owner has verified in writing that the Alteration meets the requirements of conditions 6.1.2 to 6.1.7.

6.2 The consents, verifications and documentation required in conditions 6.1.7 and 6.1.8 shall be:

6.2.1 Recorded on Form SW3 prior to undertaking the Alteration; and

6.2.2 Retained for a period of at least ten (10) years by the Owner.

6.3 For greater certainty, the verification requirements set out in condition 6.2 do not apply to any Alteration in respect of the Authorized System which:

6.3.1 Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98; or

6.3.2 Constitutes maintenance or repair of the Authorized System, including changes to software for an existing SCADA system resulting from Alterations authorized in condition 6.1.

6.4 The Owner shall update, within twelve (12) months of the Alteration of the Sewage Works being placed into service, any drawings maintained for the Municipal Stormwater Management System to reflect the Alterations of the Sewage Works, where applicable.

7.0 Outlets

7.1 Any outlet established or altered as part of an Alteration authorized through conditions 4, 5, or 6 of Schedule D in this Approval shall have regard to the 2012 TRCA Stormwater Management Criteria document, Appendix E, for outlets.

7.2 Any outlet established as part of an Alteration authorized through conditions 4, 5, or 6 of Schedule D in this Approval shall not:

7.2.1 Increase discharge or create a new point source discharge to privately owned land unless there is express written consent of the owner(s) of such private land(s).

7.2.2 Result in Adverse Effects.

8.0 Previously Approved Sewage Works

8.1 If approval for an Alteration to the Authorized System was issued under the EPA and is revoked by this Approval, the Owner may make the Alteration in accordance with:

8.1.1 The terms of this Approval; or

8.1.2 The terms and conditions of the revoked approval as of the date this approval was issued, provided that the Alteration is commenced

within five (5) years of the date that the revoked approval was issued.

9.0 Transition

9.1 An Alteration of the Authorized System is exempt from the requirements in clause (e) of condition 4.1.1, clause (d) of condition 5.2.1, and clause (c) of condition 6.1.1 where:

9.1.1 Effort to undertake the Alteration, such as tendering or commencement of construction of the Sewage Works associated with the Alteration, begins on or before June 24, 2023.

9.1.2 The design of the Alteration conforms to the Stormwater Management Planning and Design Manual, and where applicable, Design Guidelines for Sewage Works;

9.1.3 The design of the Alteration was completed on or before the issue date of this Approval or a Class Environmental Assessment was completed for the Alteration and changes to the design result in significant cost increase or significant project delays; and

9.1.4 The Alteration would be otherwise authorized under this Approval.

Schedule E: Operating Conditions

System Owner	**Lambton Shores, The Corporation of the Municipality of**
ECA Number	**049-S701**
System Name	**Lambton Shores Municipal Stormwater System**
ECA Issue Date	**November 7th, 2022**

1.0 General Operations

1.1 The Owner shall ensure that, at all times, the Sewage Works comprising the Authorized System and the related equipment and Appurtenances used to achieve compliance with this Approval are properly operated and maintained.

1.2 Prescribed Persons and Operating Authorities shall ensure that, at all times, the Sewage Works under their care and control and the related equipment and Appurtenances used to achieve compliance with this Approval are properly operated and maintained.

1.3 In conditions 1.1 and 1.2 “properly operated and maintained” includes effective performance, adequate funding, adequate operator staffing and training, including training in applicable procedures and other requirements of this Approval and the EPA, OWRA, CWA, and regulations, adequate laboratory services, process controls and alarms and the use of process chemicals and other substances used in the Authorized System.

1.4 The Owner ensure that Sewage Works are operated with the objective that the effluent from the Sewage Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen, foam, or discoloration on the receiving waters, and shall evaluate the need for maintenance if the objective is not being met.

1.5 The Owner shall ensure that any Storm Sewers or ditches authorized under Schedule D of this approval are not placed into operation until the associated Stormwater Management Facilities to provide treatment are constructed and operated.

2.0 Duties of Owners and Operating Authorities

2.1 The Owner, Prescribed Persons, and any Operating Authority shall ensure the following:

2.1.1 At all times that the Sewage Works within the Authorized System are in service, the Sewage Works are:

a) Operated in accordance with the requirements under the EPA and OWRA, and

b) Maintained in a state of good repair.

2.1.2 The Authorized System is operated by persons that are familiar with the requirements of this Approval.

2.1.3 All sampling, testing, monitoring, and reporting requirements under the EPA and this Approval that relate to the Authorized System are complied with.

2.1.4 All necessary steps are taken to ensure that operations of the Sewage Works and any associated physical structures do not constitute a safety or health hazard to the general public.

2.1.5 Where a Stormwater Management Facility ceases to function as a Stormwater Management Facility, whether by intent, accident, or otherwise (e.g., a CSO or an SSO), a workplan shall be developed that includes local community notification, plans for rehabilitating the Stormwater Management Facility to proper function in a reasonable time, identification of actions that will be taken to prevent reoccurrences, and timelines for implementing the workplan.

2.1.6 That operations and maintenance activities are undertaken at the frequency and in conformance with the procedures set out in the O&M Manual.

a) A Prescribed Person or Operating Authority shall only undertake operations and maintenance activities where they have been delegated the authority to undertake such activities by the Owner or the Owner has expressly approved the activity(ies).

2.2 For clarity, the requirements outlined in the above conditions 2.1 for Prescribed Persons and any Operating Authority only apply to Sewage Works within the Authorized System where they are responsible for the operation.

2.3 The Owner, Prescribed Persons, and Operating Authority shall take all reasonable steps to minimize and ameliorate any Adverse Effect on the Natural Environment or impairment of the quality of water of any waters resulting from the operation of the Authorized System, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.

3.0 Operations and Maintenance

3.1 Inspection

3.1.1 The Owner shall ensure that all Sewage Works within the Authorized System are inspected at the frequency and in accordance with procedures set out in their O&M Manual.

3.1.2 The owner shall ensure that:

a) Any Stormwater Management Facilities, pumping stations, and any outlets that discharge to a receiver, are inspected at least once before December 31, 2026, if these have not been inspected since January 1, 2018 and thereafter as required by the O&M Manual; and

b) Any Stormwater Management Facilities, pumping stations, and any outlets that discharge to a receiver, established, or replaced within the Authorized System after the date of issuance of this Approval, are inspected within one year of being placed into service and thereafter as required by the O&M Manual.

3.1.3 The Owner shall clean and maintain Sewage Works within the Authorized System to ensure the Sewage Works perform as designed.

3.1.4 The Owner shall inspect the Stormwater Management Facilities in the Authorized System after significant flooding events as defined in, and in accordance with procedures documented in, the O&M Manual.

3.1.5 The Owner shall maintain records of the results of the inspections required in condition 3.1.1, 3.1.2 and 3.1.4 and any cleaning and maintenance operations undertaken, and shall make available the records for inspection by the Ministry upon request. The records shall include the following:

a) Asset ID and name of the Sewage Works;

b) Date and results of each inspection, maintenance, or cleaning;

c) Name of person who conducted the inspection, maintenance, or the name of the inspecting official, where applicable, and

d) As applicable to the type of works, observations resulting from the inspection including, at a minimum:

i Hydraulic operation of the works (e.g., length of occurrence since the last rainfall event, evidence or occurrence of overflows).

ii Condition of vegetation in and around the works.

iii Occurrence of obstructions at the inlet and outlet of the works.

iv Evidence of spills and/or oil/grease contamination.

v Presence of trash build-up, and

vi Measurements of other parameters as required in the Monitoring Plan.

3.2 Operations & Maintenance (O&M) Manual

3.2.1 The Owner shall prepare and implement an operations and maintenance manual for Sewage Works within the Authorized System on or before June 24, 2023, that includes or references, but is not necessarily limited to, the following information:

a) Procedures for the routine operation of the Sewage Works;

b) Inspection programs, including the frequency of inspection, and the methods or tests employed to detect when maintenance is necessary, including:

i Presence of algae and/or invasive species impairing the Works (e.g., phragmites, goldfish);

ii Measurements of sediment depth, manual water levels (staff gauge) and/or visual observations, as appropriate to the Stormwater Management Facilities.

c) Maintenance and repair programs, including:

i The frequency of maintenance and repair for the Sewage Works;

ii Stormwater pond sediment cleanout, dewatering, and management;

iii Excavation, modification, replacement of LID soil/media/aggregate/geotextile, such as bioretention cells, green roof, permeable pavement; and

iv The frequency of maintenance for any other Stormwater Management Facilities identified in Schedule B that collect sediment.

d) Operational and maintenance requirements to protect sources of drinking water, such as those included in the Standard Operating Policy for Sewage Works, and any applicable local Source Protection Plan policies;

e) Procedures for routine physical inspection and calibration of monitoring equipment or components in accordance with the Monitoring Plan;

f) Emergency Response, Spill Reporting and Contingency Plans and Procedures for dealing with equipment breakdowns, potential Spills, and any other abnormal situations, including notification to the Spills Action Center, the Medical Officer of Health, and the District Manager, as applicable;

g) Procedures for receiving, responding, and recording public complaints, including recording any follow-up actions taken; and

h) As-built drawings or record drawings of the Sewage Works for stormwater works constructed after 2010 and where available, for stormwater works constructed before 2010.

3.2.2 The Owner shall review and update the O&M Manual and ensure that access to a copy is readily available for each Stormwater Management Facility for the operational life of the works.

3.2.3 The Owner shall provide a copy of the O&M Manual to Ministry staff, upon request.

3.2.4 The Owner shall revise the O&M Manual to include procedures necessary for the operation and maintenance of any Sewage Works within the Authorized System that are established, altered, extended, replaced, or enlarged after the date of issuance of this approval prior to placing into service those Sewage Works.

3.2.5 For greater certainty, the O&M Manual may be a single document or a collection of documents that, when considered together, apply to all parts of the Authorized System.

3.3 On or before June 24, 2025, the Owner shall establish signage to notify the public at any Stormwater Management Facility identified in Schedule B that is a wet pond, dry pond, hybrid Facility, or engineered wetland. The signage shall include the following minimum information:

3.3.1 Identification that the site contains a Stormwater Management Facility;

3.3.2 Identification of potential hazards and limitations of water use, as applicable;

3.3.3 Identification of the purpose of the Facility;

3.3.4 ECA approval number and/or asset ID; and

3.3.5 Owner's contact information.

3.4 Prior to any maintenance of Sewage Works comprising the Authorized System, the Owner shall ensure that all applicable permits or authorizations have been obtained from Federal or Provincial agencies having legislative mandates relating to species at risk or water resources.

4.0 Monitoring Plan

4.1 On or before June 24, 2024 or within twenty-four (24) months of the date of the publication of the Ministry's monitoring guidance, whichever is later, the Owner shall develop and implement a monitoring plan for the Authorized System. The monitoring plan shall be:

4.1.1 Signed and approved by management with the authority delegated by the Owner to do so;

4.1.2 Peer-reviewed by a third-party Qualified Person (QP), external to the development of the Monitoring Plan, to verify the adequacy of the Monitoring Plan in complying with conditions 4.4 and 4.5 of Schedule E. The results of the peer review shall include:

a) Written confirmation from the QP that they have the experience and qualifications to carry out the work; and

b) Written confirmation from the QP of the adequacy of the Monitoring Plan.

4.2 The Owner, or a QP designated by the Owner, may jointly develop the Monitoring Plan in partnership with Owner(s) of other Municipal Stormwater Management Systems as long as the Municipal Stormwater Management Systems are within the same watershed.

4.3 The Owner shall ensure the Monitoring Plan is implemented and any resulting monitoring data is recorded in an electronic database.

4.4 The Monitoring Plan shall include:

4.4.1 Procedures to verify that the operational performance of the Authorized System is as designed/planned;

4.4.2 Procedures to assess the environmental impact of the Municipal Stormwater Management System; and

4.4.3 Procedures for any corrective action that may be required to address any performance deficiencies or environmental impacts identified from above conditions 4.4.1 or 4.4.2.

4.5 The Monitoring Plan shall also include, but not be limited to:

4.5.1 Identification of the Sewage Works to be monitored, including outlets and any works that provide quality and/or quantity control;

4.5.2 Identification of the key receivers to be monitored within the Owner's municipal boundaries and the monitoring locations;

4.5.3 Consideration of relevant municipal land use and environmental planning documents (e.g., Stormwater Management Master Plan, Class Environmental Assessment Project, asset management plan, subwatershed studies, and planned development);

4.5.4 Characterization of water quality and quantity conditions and identification of water users to be protected, based on conditions 4.5.2 and 4.5.3;

4.5.5 Identification of water quality and quantity goals, as it relates to Stormwater management, using the information collected in condition 4.5.4;

4.5.6 Identification of locations of rainfall gauges to be used;

4.5.7 Identification of inspections, measurements, sampling, analysis and/or other monitoring activities that were used as the basis for or will inform future updates to the procedures identified in condition 4.4.

4.5.8 Details respecting a monitoring program for the works and the receivers, that includes, at a minimum:

a) Hydrological, chemical, physical, and biological parameters, as appropriate, in alignment with the goals;

b) Ensures water level of the Stormwater Measurement Facilities, excluding MTDs, are measured at regular intervals with a water level gauge;

c) Monitoring methodology, including the frequency and protocols for sampling, analysis, and recording, with consideration of dry and wet weather events and timing of sampling during wet weather events.

d) Ensures that the time of all samples or measurements are recorded.

4.5.9 An implementation plan for the monitoring program that identifies timelines and, if the monitoring occurs on a rotational basis, provides a description of the rotational schedule and associated works.

4.5.10 Includes a summary of all monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations, and

4.5.11 Consideration of adaptive management practices (e.g., evidence-based decision making).

4.6 The Owner shall ensure that the Monitoring Plan is updated where necessary within twelve (12) months of any Alteration to the Authorized System, or more frequently as required by the Monitoring Plan.

4.7 The Owner shall, on request and without charge, provide a copy of the Monitoring Plan and any resulting monitoring data to members of the public.

5.0 Reporting

5.1 The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.

5.2 The Owner shall prepare an annual performance report for the Authorized System that:

5.2.1 Is submitted to the Director on or before April 30th of each year and covers the period from January 1st to December 31st of the preceding calendar year.

a) For clarity, the first report shall cover the period of January 1, 2023 to December 31st, 2023 and be submitted to the Director on or before April 30th, 2024.

5.2.2 Includes a summary of all monitoring data along with an interpretation of the data and an overview of the condition and operational performance of the Authorized System and any Adverse Effects on the Natural Environment;

5.2.3 Includes a summary and interpretation of environmental trends based on all monitoring information and data for the previous five (5) years;

5.2.4 Includes a summary of any operating problems encountered and corrective actions taken;

5.2.5 Includes a summary of all inspections, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the Authorized System;

5.2.6 Includes a summary of the calibration and maintenance carried out on all monitoring equipment;

5.2.7 Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints;

5.2.8 Includes a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat;

5.2.9 Includes a summary of all spills or abnormal discharge events;

5.2.10 Includes a summary of actions taken, including timelines, to improve or correct performance of any aspect of the Authorized System; and

5.2.11 Includes a summary of the status of actions for the previous reporting year.

5.3 The report described in condition 5.2 shall be:

5.3.1 Made available, on request and without charge, to members of the public who are served by the Authorized System; and

5.3.2 Made available, by June 1st of the same reporting year, to members of the public without charge by publishing the report on the Internet, if the Owner maintains a website on the Internet.

6.0 Record Keeping

6.1 The Owner shall retain for a minimum of ten (10) years from the date of their creation:

6.1.1 All records, reports and information required by this Approval and related to or resulting Alterations to the Authorized System, and

6.1.2 All records, report and information related to the operation, maintenance and monitoring activities required by this Approval.

6.2 The Owner shall update, within twelve (12) months of any Alteration to the Authorized System being placed into service, any drawings maintained for the Municipal Stormwater Management System to reflect the Alteration of the Sewage Works, where applicable.

7.0 Review of this Approval

7.1 No later than the date specified in Condition 1 of Schedule A of this Approval, the Owner shall submit to the Director an application to have the Approval reviewed. The application shall, at minimum:

7.1.1 Include an updated description of the Sewage Works within the Authorized System, including any Alterations to the Sewage Works that were made since the Approval was last issued; and

7.1.2 Be submitted in the manner specified by Director and include any other information requested by the Director.

8.0 Source Water Protection

8.1 The Owner shall ensure that any Alteration in the Authorized System is designed, constructed, and operated in such a way as to be protective of sources of drinking water in Vulnerable Areas as identified in the Source Protection Plan, if available.

8.2 The Owner shall prepare a “Significant Drinking Water Threat Assessment Report for Proposed Alterations” for the Authorized System on or before June 24, 2023 that includes, but is not necessarily limited to:

8.2.1 An outline of the circumstances under which proposed Alterations could pose a Significant Drinking Water Threat based on the Director’s Technical Rules established under the CWA.

8.2.2 An outline of how the Owner assesses the proposed Alterations to identify drinking water threats under the CWA.

8.2.3 For any proposed Alteration a list of components, equipment, or Sewage Works that are being altered and have been identified as a Significant Drinking Water Threat.

8.2.4 A summary of design considerations and other measures that have been put into place to mitigate risks resulting from construction or operation of the components, equipment, or Sewage Works identified in condition 8.2.3, such as those included in the Standard Operating Policy for Sewage Works.

8.3 The Owner shall make any necessary updates to the report required in condition 8.2 at least once every twelve (12) months.

8.4 Any components, equipment, or Sewage Works added to the report required in condition 8.2 shall be include in the report for the operational life of the Sewage Works.

8.5 Upon request, the Owner shall make a copy of the report required in condition 8.2 available to the Ministry or Source Protection Authority staff.

9.0 Storm Sewer Catchment Asset Inventory

9.1 The Owner shall prepare and submit to the Director an inventory of the storm sewersheds and classify in accordance with Tables E1 and E2, on or before June 24, 2025. Minimum classification of the level of Stormwater management is as follows:

9.1.1 Level A – Stormwater receives treatment for water quality and quantity prior to discharge to the environment;

9.1.2 Level B – Stormwater receives treatment for water quality but no water quantity prior to discharge to the environment; and

9.1.3 Level C – Stormwater receives no treatment for water quality prior to discharge to the environment.

Table E1. Storm Sewershed and Associated Treatment

Outlet Asset ID	Sewershed Catchment Area (ha)	Tributary or Receiver	Subwatershed/ Watershed	Stormwater Management Level (A, B or C)	Treatment provided by other municipality (if applicable)

Table E2. Summary of Storm Sewersheds

Stormwater Management Level	Total Number of Outlets to Environment	Total Sewershed Catchment Area (ha)
Level A		
Level B		
Level C		

9.2 Within 12 (twelve) months of the date that the inventory required in condition 9.1 is submitted to the Director, the document(s) or file(s) referenced in Table B1 of Schedule B of this Approval shall be updated to identify the storm sewersheds for each outlet and their level of Stormwater management.

Schedule F: Residue Management

System Owner	**Lambton Shores, The Corporation of the Municipality of**
ECA Number	**049-S701**
System Name	**Lambton Shores Municipal Stormwater System**
ECA Issue Date	**November 7th, 2022**

1.0 Residue Management System

1.1 Not Applicable.

Appendix A – Stormwater Management Criteria

1.0 Applicability of Criteria

1.1 The criteria listed under Table A1 of this Appendix applies to all drainage areas greater than 0.1 ha, with the construction erosion and sediment control criteria applying also to sites <0.1 ha;

1.2 Despite condition 1.1 of Appendix A, if some or all of the criteria listed under Table A1 of this Appendix have been assessed for and addressed in other adjacent developed lands to the project site through a subwatershed plan or equivalent study, then those criteria may not be applicable to the project site.

Table A1. Performance Criteria

Water Balance [1]	**FOR DEVELOPMENT SCENARIOS** [2] **Assessment Studies:** i) Control [3] as per the criteria identified in the water balance assessment completed in one or more of the following studies [15], if undertaken: a watershed/subwatershed plan; Source Protection Plan (Assessment Report component); Master Stormwater Management Plan, Master Environmental Servicing Plan; Class EA, or similar approach that transparently considers social, environmental and financial impacts; or local site study including natural heritage, Ecologically significant Groundwater Recharge Areas (EGRA), inflow and infiltration strategies. The assessment should include sufficient detail to be used at a local site level and consistent with the various level of studies; OR **IF Assessment Studies in i) NOT completed:** ii) Control [3] the recharge [4] to meet Pre-development [5] conditions on property; **OR** iii) Control [3] the runoff from the 90th percentile storm event. **Lake Simcoe Watershed Municipalities:** iv) Control [3] as per the evaluation of anticipated changes in water balance between Pre-development and post-development assessed through a Stormwater management plan in support of an application for Major Development [6]. The assessment should include sufficient detail to be used at a local site level. If it is demonstrated, using the approved water balance estimation methods **[7]**, that the site's post to Pre-development water balance cannot be met, and Maximum Extent Possible [8] has been attained, the proponent may use Lake Simcoe and Region Conservation Authority's (LSRCA) Recharge Compensation Program [9]. **FOR RETROFIT SCENARIOS** [10] **Assessment Studies:** i) Control as per criteria identified in the water balance assessment completed in one or more of the following studies: a watershed/subwatershed plan, Source Protection Plan (Assessment Report component), Master Stormwater Management Plan, Master Environmental Servicing Plan,

	Class EA, or local site study including natural heritage, EGRA, inflow and infiltration strategies, if undertaken. The assessment should include sufficient detail to be used at a local site level and consistent with the various level of studies; **OR** ii) If constraints [11] identified in i), then control [3] as per Maximum Extent Possible [8] based on environmental site feasibility studies or address local needs[14]. **IF Assessment Studies in i) NOT completed:** iii) Control [3] the recharge [4] to meet Pre-development [5] conditions on property; **OR** iv) Control [3] the runoff from the 90th percentile storm event.
Water Quality [1]	**FOR DEVELOPMENT SCENARIOS** [2] All of the following criteria must be met for development scenarios: **General:** i) Characterize the water quality to be protected and Stormwater Contaminants (e.g., suspended solids, nutrients, bacteria, water temperature) for potential impact on the Natural Environment, and control as necessary, **OR** ii) As per the watershed/subwatershed plan, similar area-wide Stormwater study, or Stormwater management plan to minimize, or where possible, prevent increases in Contaminant loads and impacts to receiving waters. **Suspended Solids:** i) Control [3] 90th percentile storm event and if conventional methods are necessary, then enhanced, normal, or basic levels of protection (80%, 70%, or 60% respectively) for suspended solids removal (based on the receiver). **Phosphorus:** i) Minimize existing phosphorus loadings to Lake Erie and its tributaries, as compared to 2018 or conditions prior to the proposed development, **OR** ii) Minimize phosphorus loadings to Lake Simcoe and its tributaries. Proponents with development sites located in the Lake Simcoe watershed shall evaluate anticipated changes in phosphorus loadings between Pre-development and post-development through a Stormwater management plan in support of an application for Major Development [6]. The assessment should include sufficient detail to be used at a local site level. If, using the approved phosphorus budget tool [12], it is demonstrated that the site's post to Pre-development phosphorus budget cannot be met, and Maximum Extent Possible [8] has been attained, the proponent may use LSRCA's Phosphorus Offsetting Policy [9]. **FOR RETROFIT SCENARIOS** [10] i) Improve the level of water quality control currently provided on site; **AND** ii) As per the 'Development' criteria for Suspended Solids, **OR** iii) **If 'Development' criteria for Suspended Solids cannot be met**, Works are designed as a multi-year retrofit project, in accordance with a rehabilitation study or similar area-wide Stormwater study, such that the completed treatment train will achieve the 'Development' criteria for Suspended Solids or local needs[14], within ten (10) years; **OR**

	iv) If constraints [11] identified in ii) and iii), then control [3] as per Maximum Extent Possible [8] based on environmental site feasibility studies.
Erosion Control (Watershed) [1]	**FOR DEVELOPMENT SCENARIOS** [8] i) As per erosion assessment completed in watershed/subwatershed plan, Master Stormwater Management Plan, Master Environmental Servicing Plan, Drainage Plan, Class EA, local site study, geomorphologic study, or erosion analysis; **OR** ii) As per the Detailed Design Approach or Simplified Design Approach methods described in the Stormwater Management Planning and Design Manual: a. The Detailed Design Approach may be selected by the proponent for any development regardless of size and location within the watershed provided technical specialists are available for the completion of the technical assessments; or considered more appropriate than the simplified approach given the size and location of the development within the watershed and the sensitivity of the receiving waters in terms of morphology and habitat function. b. The Simplified Design Approach may be adopted for watersheds whose development area is generally less than twenty hectares AND either one of the following two conditions apply: 1) The catchment area of the receiving channel at the point-of-entry of Stormwater drainage from the development is equal to or greater than twenty-five square kilometres; or 2) Meets the following conditions: • The channel bankfull depth is less than three quarters of a metre; • The channel is a headwater stream; • The receiving channel is not designated as an Environmentally Sensitive Area (ESA) or Area of Natural or Scientific Interest (ANSI) and does not provide habitat for a sensitive aquatic species; • The channel is stable to transitional; and • The channel is slightly entrenched; **OR** iii) In the absence of a guiding study, detain at minimum, the runoff volume generated from a 25 mm storm event over 24 to 48 hours. **FOR RETROFIT SCENARIOS** [10] i) If approaches i-iii) under 'Development Scenarios' are not feasible as per identified constraints [11], then improve the level of erosion control [3] currently provided on site to Maximum Extent Possible [8] based on environmental site feasibility studies or address local needs[14].
Water Quantity (Minor and Major System) [1]	**i)** As per municipal standards, Master Stormwater Management Plan, Class EA, Individual EA and/or ECA, as appropriate for the type of project [13]
Flood Control (Watershed Hydrology) [1]	**FOR DEVELOPMENT SCENARIOS** [2] i) Manage peak flow control as per watershed/subwatershed plans, municipal criteria being a minimum 100 year return storm (except for site-specific considerations and proximity to receiving water bodies), municipal guidelines and standards, Individual/Class EA, ECA, Master Plan, as appropriate for the type of project [13].

	FOR RETROFIT SCENARIOS [10] i) If approaches i) under 'Development Scenarios' are not feasible as per identified constraints [11], then improve the level of flood control [3] currently provided on site to Maximum Extent Possible [8] based on environmental site feasibility studies.
Construction Erosion and Sediment Control	i) Manage construction erosion and sediment control through development and implementation of an erosion and sediment control (ESC) plan. The ESC plan shall: a. Have regard to Canadian Standards Association (CSA) W202 Erosion and Sediment Control Inspection and Monitoring Standard (as amended); OR b. Have regard to Erosion and Sediment Control Guideline for Urban Construction 2019 by TRCA (as amended). ii) Be prepared by a QP for sites with drainage areas greater than 5 ha or if specified by the Owner for a drainage lower than 5 ha. iii) Installation and maintenance of the ESC measures specified in the ESC plan shall have regard to CSA W208:20 Erosion and Sediment Control Installation and Maintenance (as amended). iv) For sites with drainage areas greater than 5 ha, a QP shall inspect the construction ESC measures, as specified in the ESC plan.
Footnote	1. Where the opportunity exists on your project site or the same subwatershed, reallocation of development elements may be optimal for management as described in footnote [3]. 2. Development includes new development, redevelopment, infill development, or conversion of a rural cross-section into an urban cross-section. 3. Stormwater volumes generated from the geographically specific 90th percentile rainfall event on an annual average basis from all surfaces on the entire site are targeted for control. Control is in the following hierarchical order, with each step exhausted before proceeding to the next: 1) retention (infiltration, reuse, or evapotranspiration), 2) LID filtration, and 3) conventional Stormwater management. Step 3, conventional Stormwater management, should proceed only once Maximum Extent Possible [8] has been attained for Steps 1 and 2 for retention and filtration. 4. Recharge is the infiltration and movement of surface water into the soil, past the vegetation root zone, to the zone of saturation, or water table. 5. Pre-development is defined as the more stringent of the two following scenarios: 1) a site's existing condition, or 2) as defined by the local municipality. 6. Major Development has the same meaning as in the Lake Simcoe Protection Plan, 2009. 7. Currently, the approved tool by LSRCA for calculating the water balance is the Thornthwaite-Mather Method. Other tools agreed upon by relevant approval agencies (e.g., LSRCA, municipality, or Ministry) may also be acceptable, subject to written acceptance by the Director. 8. Maximum Extent Possible means maximum achievable Stormwater volume control through retention and LID filtration engineered/landscaped/technical Stormwater practices, given the site constraints [11]. 9. Information pertaining to LSRCA's Recharge Compensation Program and Phosphorus Offsetting Policy is available on LSRCA's website (lsrca.on.ca), or in "Water Balance Recharge Policy for the Lake Simcoe Protection Plan", dated July 2021, and prepared by Lake Simcoe Region Conservation Authority and "Phosphorus Offsetting Policy", dated July 2021, and prepared by Lake Simcoe Region Conservation Authority.

	10. Retrofit means: 1) a modification to the management of the existing infrastructure, 2) changes to major and minor systems, or 3) adding Stormwater infrastructure, in an existing area on municipal right-of-way, municipal block, or easement. It does not include conversion of a rural cross-section into an urban cross-section. 11. Site constraints must be documented. A list of site constraints can be found in Table A2. 12. Tools for calculating phosphorus budgets may include the Ministry's Phosphorus Tool, the Low Impact Development Treatment Train Tool developed in partnership by TRCA, LSRCA, and Credit Valley Conservation (CVC), or other tools agreed upon by the LSRCA and other relevant approval agencies including the municipality. 13. Possible to look at combined grey infrastructure and LID system capacity jointly. 14. Local needs include requirements for water quality, erosion, and/or water balance retrofits identified by the owner through ongoing operation and maintenance of the stormwater system, including inspection of local receiving systems and the characterization of issues requiring remediation through retrofit controls. 15. All studies shall conform with Ministry policies. If any conclusions in the studies negate policy, then the project will require a direct submission to the Ministry for review through an application pertaining to a Schedule C Notice.

Table A2. Stormwater Management Practices Site Constraints

Site Constraints	
a)	Shallow bedrock [1], areas of blasted bedrock [2], and Karst;
b)	High groundwater [1] or areas where increased infiltration will result in elevated groundwater levels which can be shown through an appropriate area specific study to impact critical utilities or property (e.g., susceptible to flooding);
c)	Swelling clays [3] or unstable sub-soils;
d)	Contaminated soils (e.g., brownfields);
e)	High Risk Site Activities including spill prone areas;
f)	Prohibitions and or restrictions per the approved Source Protection Plans and where impacts to private drinking water wells and /or Vulnerable Domestic Well Supply Areas cannot be appropriately mitigated;
g)	Flood risk prone areas or structures and/ or areas of high inflow and infiltration (I/I) where wastewater systems (storm and sanitary) have been shown through technical studies to be sensitive to groundwater conditions that contribute to extraneous flow rates that cause property flooding / Sewer back-ups;
h)	For existing municipal rights-of-way infrastructure (e.g., roads, sidewalks, utility corridor, Sewers, LID, and trails) where reconstruction is proposed and where surface and subsurface areas are not available based on a site-specific assessment completed by a QP;
i)	For developments within partially separated wastewater systems where reconstruction is proposed and where, based on a site-specific assessment completed by a QP, can be shown to: i Increase private property flood risk liabilities that cannot be mitigated through design; ii Impact pumping and treatment cost that cannot be mitigated through design; or

iii Increase risks of structural collapse of Sewer and ground systems due to infiltration and the loss of pipe and/or pavement support that cannot be mitigated through design.
j) Surface water dominated or dependent features including but not limited to marshes and/or riparian forest wetlands which derive all or a majority of their water from surface water, including streams, runoff, and overbank flooding. Surface water dominated or dependent features which are identified through approved site specific hydrologic or hydrogeologic studies, and/or Environmental Impact Statements (EIS) may be considered for a reduced volume control target. Pre-consultation with the MECP and local agencies is encouraged;
k) Existing urban areas where risk to water distribution systems has been identified through assessments to meet applicable drinking water requirements, including Procedures F-6 and F-6-1, and substantiated by a QP through an appropriate area specific study and where the risk cannot be reasonably mitigated per the relevant design guidelines;
l) Existing urban areas where risk to life, human health, property, or infrastructure has been is identified and substantiated by a QP through an appropriate area specific study and where the risk cannot be reasonably mitigated per the relevant design guidelines;
m) Water reuse feasibility study has been completed to determine non-potable reuse of Stormwater for onsite or shared use;
n) Economic considerations set by infrastructure feasibility and prioritization studies undertaken at either the local/site or municipal/system level [4].
Footnote: 1. May limit infiltration capabilities if bedrock and groundwater is within 1m of the proposed Facility invert per Table 3.4.1 of the LID Stormwater Planning and Design Guide (2010, V1.0 or most recent by TRCA/CVC). Detailed assessment or studies are required to demonstrate infiltration effects and results may permit relaxation of the minimum 1m offset. 2. Where blasting is more localized, this constraint may not be an issue elsewhere on the property. While infiltration-based practices may be limited in blasted rock areas, other forms of LID, such as filtration, evapotranspiration, etc., are still viable options that should be pursued. 3. Swelling clays are clay soils that is prone to large volume changes (swelling and shrinking) that are directly related to changes in water content. 4. Infrastructure feasibility and prioritization studies should comprehensively assess Stormwater site opportunities and constraints to improve cost effectiveness, environmental performance, and overall benefit to the receivers and the community. The studies include assessing and prioritizing municipal infrastructure for upgrades in a prudent and economically feasible manner.

Appendix B

Baseline Model Input & Output Data

5-Year Storm Event -Baseline Model

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.015)
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WARNING 04: minimum elevation drop used for Conduit C672
WARNING 08: elevation drop exceeds length for Conduit C709
WARNING 03: negative offset ignored for Link C94

*************
Element Count
*************
Number of rain gages ...... 6
Number of subcatchments ... 272
Number of nodes ........... 413
Number of links ........... 451
Number of pollutants ...... 0
Number of land uses ....... 0


****************
Raingage Summary
****************
                                                  Data       Recording
Name                 Data Source                  Type       Interval
----------------------------------------------------------------------
100-yr_Chicago_4h_current 100-yr_Chicago_4h_current      INTENSITY   10 min.
100-yrChicago_4h_climate_change 100-yrChicago_4h_climate_change INTENSITY   10 min.
100yr-Climate_Change_Chicago_24h 100yr-Climate_Change_Chicago_24h INTENSITY    5 min.
100-yr-Historical-Chicago-24h 100-yr-Historical-Chicago-24h  INTENSITY    5 min.
5yr-Climate_Change_Chicago_24h 5yr-Climate_Change_Chicago_24h INTENSITY    5 min.
5yr-Historical_Chicago_24h 5yr-Historical_Chicago_24h     INTENSITY    5 min.


********************
Subcatchment Summary
********************
Name                         Area     Width   %Imperv    %Slope Rain Gage            Outlet
------------------------------------------------------------------------------------------------
Rural_1                      6.93    693.09     40.00    1.5000 5yr-Historical_Chicago_24h OF55
Rural_10                    33.34   2222.61     40.00    1.5000 5yr-Historical_Chicago_24h OF46-
Rural_11                     0.47    117.85     40.00    1.5000 5yr-Historical_Chicago_24h MJ5
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Rural_12	22.22	1481.37	40.00	1.5000	5yr-Historical_Chicago_24h	OF45-
Rural_13	22.63	1508.50	40.00	1.5000	5yr-Historical_Chicago_24h	OF44-
Rural_14	17.01	1133.79	40.00	1.5000	5yr-Historical_Chicago_24h	OF42-
Rural_15	19.30	1286.64	40.00	1.5000	5yr-Historical_Chicago_24h	OF47-
Rural_16	26.34	1756.25	40.00	1.5000	5yr-Historical_Chicago_24h	OF43-
Rural_16-2_1	6.17	617.28	40.00	1.5000	5yr-Historical_Chicago_24h	OF41-
Rural_16-2_2	7.41	740.63	40.00	1.5000	5yr-Historical_Chicago_24h	OF40-
Rural_17	2.77	692.27	40.00	1.5000	5yr-Historical_Chicago_24h	OF28-
Rural_17_1	2.85	711.70	40.00	1.5000	5yr-Historical_Chicago_24h	MJ7
Rural_17_2	15.18	1012.09	40.00	1.5000	5yr-Historical_Chicago_24h	OF34-
Rural_17_4	13.48	898.39	7.00	1.5000	5yr-Historical_Chicago_24h	OF36-
Rural_18	10.27	1027.27	0.00	1.5000	5yr-Historical_Chicago_24h	OF35-
Rural_19	56.92	3794.74	0.00	1.5000	5yr-Historical_Chicago_24h	OF37-
Rural_2	19.33	1932.61	40.00	1.5000	5yr-Historical_Chicago_24h	OF56
Rural_20	24.28	2427.98	0.00	1.5000	5yr-Historical_Chicago_24h	OF38-
Rural_21	97.14	6475.83	0.00	1.5000	5yr-Historical_Chicago_24h	OF48-
Rural_22	42.10	2806.98	7.00	1.5000	5yr-Historical_Chicago_24h	OF58
Rural_23	51.76	3450.73	16.00	1.5000	5yr-Historical_Chicago_24h	OF60
Rural_24	7.67	1916.28	39.00	1.5000	5yr-Historical_Chicago_24h	OF59
Rural_25	39.85	2656.49	12.00	1.5000	5yr-Historical_Chicago_24h	OF58
Rural_26	32.24	2149.19	0.00	1.5000	5yr-Historical_Chicago_24h	OF61
Rural_27	9.02	901.70	40.00	1.5000	5yr-Historical_Chicago_24h	OF39-
Rural_29	17.03	1135.65	40.00	1.5000	5yr-Historical_Chicago_24h	OF47-
Rural_3	7.28	727.85	40.00	1.5000	5yr-Historical_Chicago_24h	OF57
Rural_4	27.11	1807.37	40.00	1.5000	5yr-Historical_Chicago_24h	OF53
Rural_5	11.25	1124.69	40.00	1.5000	5yr-Historical_Chicago_24h	OF51
Rural_6	13.81	1380.92	40.00	1.5000	5yr-Historical_Chicago_24h	OF52
Rural_7	17.28	1152.22	40.00	1.5000	5yr-Historical_Chicago_24h	OF49-
Rural_8	12.76	850.42	40.00	1.5000	5yr-Historical_Chicago_24h	OF50
Rural_9	22.61	1507.37	40.00	1.5000	5yr-Historical_Chicago_24h	OF54
UC1	1.33	443.23	20.00	0.5000	5yr-Historical_Chicago_24h	MJ71
UC10	0.27	88.36	55.00	0.5000	5yr-Historical_Chicago_24h	MJ130
UC100	0.16	53.27	55.00	0.5000	5yr-Historical_Chicago_24h	OF4-M
UC11	1.25	416.49	55.00	0.5000	5yr-Historical_Chicago_24h	MJ130
UC111	0.06	18.46	55.00	0.5000	5yr-Historical_Chicago_24h	MJ19
UC112	0.70	234.53	55.00	0.5000	5yr-Historical_Chicago_24h	MJ19
UC113	0.59	195.81	55.00	0.5000	5yr-Historical_Chicago_24h	MJ34
UC114	0.17	57.05	55.00	0.5000	5yr-Historical_Chicago_24h	MJ21
UC115	0.24	81.58	20.00	0.5000	5yr-Historical_Chicago_24h	MJ23
UC116	0.57	190.77	55.00	0.5000	5yr-Historical_Chicago_24h	MJ13
UC117	0.39	129.17	55.00	0.5000	5yr-Historical_Chicago_24h	MJ13

UC118	0.21	71.29	55.00	0.5000	5yr-Historical_Chicago_24h	MJ13
UC119	0.33	109.09	55.00	0.5000	5yr-Historical_Chicago_24h	MJ13
UC12	0.91	302.53	55.00	0.5000	5yr-Historical_Chicago_24h	MH2_S
UC120	1.43	475.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ135
UC121	0.29	96.14	25.00	0.5000	5yr-Historical_Chicago_24h	MJ26
UC122	0.30	100.59	55.00	0.5000	5yr-Historical_Chicago_24h	MJ105
UC123	0.15	51.62	55.00	0.5000	5yr-Historical_Chicago_24h	MJ87
UC124	0.24	80.00	55.00	0.5000	5yr-Historical_Chicago_24h	MJ74
UC125	0.30	30.34	25.00	0.5000	5yr-Historical_Chicago_24h	MJ25
UC126	0.08	26.84	55.00	0.5000	5yr-Historical_Chicago_24h	MJ114
UC127	0.40	134.31	55.00	0.5000	5yr-Historical_Chicago_24h	MJ120
UC128	0.03	8.82	55.00	0.5000	5yr-Historical_Chicago_24h	MJ114
UC129	0.04	14.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ103
UC13	1.12	372.27	55.00	0.5000	5yr-Historical_Chicago_24h	MH3_S
UC130	0.16	54.47	25.00	0.5000	5yr-Historical_Chicago_24h	MJ44
UC131	0.07	22.34	55.00	0.5000	5yr-Historical_Chicago_24h	MJ97
UC132	0.12	38.54	55.00	0.5000	5yr-Historical_Chicago_24h	MJ91
UC133	0.26	85.91	20.00	0.5000	5yr-Historical_Chicago_24h	MJ35
UC134	0.07	23.97	55.00	0.5000	5yr-Historical_Chicago_24h	MJ77
UC135	0.35	118.31	20.00	0.5000	5yr-Historical_Chicago_24h	MJ27
UC136	0.02	7.51	55.00	0.5000	5yr-Historical_Chicago_24h	MJ61
UC137	0.16	53.32	25.00	0.5000	5yr-Historical_Chicago_24h	MJ30
UC138	0.20	65.32	25.00	0.5000	5yr-Historical_Chicago_24h	MJ14
UC139	0.05	15.79	25.00	0.5000	5yr-Historical_Chicago_24h	MJ10
UC14	0.46	152.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ143
UC140	0.13	43.41	25.00	0.5000	5yr-Historical_Chicago_24h	MJ1
UC141	0.27	91.09	25.00	0.5000	5yr-Historical_Chicago_24h	MJ1
UC142	0.13	43.51	25.00	0.5000	5yr-Historical_Chicago_24h	MJ2
UC143	0.59	195.95	25.00	0.5000	5yr-Historical_Chicago_24h	MJ2
UC144	0.34	114.43	25.00	0.5000	5yr-Historical_Chicago_24h	MJ31
UC145	0.38	128.10	25.00	0.5000	5yr-Historical_Chicago_24h	MJ31
UC146	0.45	151.56	25.00	0.5000	5yr-Historical_Chicago_24h	MJ30
UC147	0.16	51.99	25.00	0.5000	5yr-Historical_Chicago_24h	MJ20
UC148	0.17	55.60	25.00	0.5000	5yr-Historical_Chicago_24h	MJ32
UC149	0.30	98.86	25.00	0.5000	5yr-Historical_Chicago_24h	MJ32
UC15	0.22	72.23	55.00	0.5000	5yr-Historical_Chicago_24h	MH8_S
UC150	0.63	210.22	20.00	0.5000	5yr-Historical_Chicago_24h	MJ27
UC151	0.23	78.08	55.00	0.5000	5yr-Historical_Chicago_24h	MJ57
UC152	0.15	48.86	55.00	0.5000	5yr-Historical_Chicago_24h	MJ3
UC153	0.48	159.93	55.00	0.5000	5yr-Historical_Chicago_24h	MJ3
UC154	0.65	217.20	55.00	0.5000	5yr-Historical_Chicago_24h	MJ3

UC155	0.19	62.55	55.00	0.5000	5yr-Historical_Chicago_24h	MJ45
UC156	0.54	181.16	55.00	0.5000	5yr-Historical_Chicago_24h	MJ25
UC157	0.46	152.01	55.00	0.5000	5yr-Historical_Chicago_24h	OF31-M
UC158	0.73	243.70	5.00	0.5000	5yr-Historical_Chicago_24h	MH_11
UC159	0.12	38.43	55.00	0.5000	5yr-Historical_Chicago_24h	CBMH5_ON
UC16	0.50	166.28	55.00	0.5000	5yr-Historical_Chicago_24h	CB15
UC160	1.93	642.25	55.00	0.5000	5yr-Historical_Chicago_24h	MJ152
UC161	0.97	324.28	5.00	0.5000	5yr-Historical_Chicago_24h	MJ155
UC162	0.37	122.53	55.00	0.5000	5yr-Historical_Chicago_24h	J127
UC163	0.08	25.95	55.00	0.5000	5yr-Historical_Chicago_24h	CB23
UC164	0.35	116.48	55.00	0.5000	5yr-Historical_Chicago_24h	CB17
UC165	2.97	991.03	35.00	0.5000	5yr-Historical_Chicago_24h	MJ152
UC166	0.53	175.10	5.00	0.5000	5yr-Historical_Chicago_24h	OF62
UC167	0.61	204.17	55.00	0.5000	5yr-Historical_Chicago_24h	OF6-
UC168	0.16	51.90	55.00	0.5000	5yr-Historical_Chicago_24h	MJ63
UC169	1.73	578.26	55.00	0.5000	5yr-Historical_Chicago_24h	MJ154
UC17	0.82	272.45	55.00	0.5000	5yr-Historical_Chicago_24h	MJ125
UC170	1.52	507.66	5.00	0.5000	5yr-Historical_Chicago_24h	MJ155
UC171	1.20	401.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ153
UC172	2.02	674.77	15.00	0.5000	5yr-Historical_Chicago_24h	MJ154
UC173	2.17	724.79	55.00	0.5000	5yr-Historical_Chicago_24h	MJ152
UC174	1.55	516.31	55.00	0.5000	5yr-Historical_Chicago_24h	MJ148
UC175	0.11	36.39	55.00	0.5000	5yr-Historical_Chicago_24h	MJ147
UC176	0.22	74.81	55.00	0.5000	5yr-Historical_Chicago_24h	MJ134
UC177	0.82	272.09	55.00	0.5000	5yr-Historical_Chicago_24h	MJ148
UC178	0.79	263.61	55.00	0.5000	5yr-Historical_Chicago_24h	OF9-M
UC179	0.43	141.99	55.00	0.5000	5yr-Historical_Chicago_24h	OF30-M
UC18	0.68	227.09	55.00	0.5000	5yr-Historical_Chicago_24h	MJ130
UC180	3.20	1067.16	55.00	0.5000	5yr-Historical_Chicago_24h	MJ100
UC181	0.76	254.77	55.00	0.5000	5yr-Historical_Chicago_24h	MJ100
UC182	1.10	367.89	55.00	0.5000	5yr-Historical_Chicago_24h	MJ70
UC183	2.34	778.67	55.00	0.5000	5yr-Historical_Chicago_24h	MJ122
UC184	0.11	35.65	55.00	0.5000	5yr-Historical_Chicago_24h	MJ99
UC185	0.11	35.03	55.00	0.5000	5yr-Historical_Chicago_24h	MJ107
UC186	0.05	15.93	55.00	0.5000	5yr-Historical_Chicago_24h	MJ104
UC187	0.14	45.38	55.00	0.5000	5yr-Historical_Chicago_24h	MJ104
UC188	1.25	417.00	55.00	0.5000	5yr-Historical_Chicago_24h	MJ129
UC189	1.78	592.86	55.00	0.5000	5yr-Historical_Chicago_24h	MJ116
UC19	0.74	247.66	55.00	0.5000	5yr-Historical_Chicago_24h	MJ108
UC190	0.38	127.82	55.00	0.5000	5yr-Historical_Chicago_24h	MJ129
UC191	0.09	29.27	55.00	0.5000	5yr-Historical_Chicago_24h	MJ132

UC192	2.38	792.09	55.00	0.5000	5yr-Historical_Chicago_24h	MJ134
UC193	0.63	209.65	55.00	0.5000	5yr-Historical_Chicago_24h	MJ147
UC194	1.71	571.06	55.00	0.5000	5yr-Historical_Chicago_24h	MH21_S
UC195	1.13	377.67	55.00	0.5000	5yr-Historical_Chicago_24h	MJ146
UC196	0.60	200.27	55.00	0.5000	5yr-Historical_Chicago_24h	Gill_RD_Pond
UC197	0.77	256.83	55.00	0.5000	5yr-Historical_Chicago_24h	MJ124
UC198	0.77	257.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ145
UC199	0.23	75.93	55.00	0.5000	5yr-Historical_Chicago_24h	OF26-M
UC2	0.69	228.67	55.00	0.5000	5yr-Historical_Chicago_24h	MJ84
UC20	0.91	303.91	55.00	0.5000	5yr-Historical_Chicago_24h	MJ101
UC200	0.40	132.98	55.00	0.5000	5yr-Historical_Chicago_24h	MJ119
UC201	1.05	349.75	55.00	0.5000	5yr-Historical_Chicago_24h	MH34_S
UC202	0.87	290.43	55.00	0.5000	5yr-Historical_Chicago_24h	MJ139
UC203	0.66	221.28	55.00	0.5000	5yr-Historical_Chicago_24h	MJ128
UC204	0.79	263.60	55.00	0.5000	5yr-Historical_Chicago_24h	MJ128
UC205	0.39	130.87	55.00	0.5000	5yr-Historical_Chicago_24h	MJ112
UC206	2.25	751.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ95
UC207	0.96	320.57	55.00	0.5000	5yr-Historical_Chicago_24h	J1
UC208	0.57	191.63	55.00	0.5000	5yr-Historical_Chicago_24h	MJ110
UC209	0.38	125.76	55.00	0.5000	5yr-Historical_Chicago_24h	MJ112
UC21	0.42	139.13	55.00	0.5000	5yr-Historical_Chicago_24h	MJ103
UC210	1.55	516.08	55.00	0.5000	5yr-Historical_Chicago_24h	MJ92
UC211	2.79	930.15	55.00	0.5000	5yr-Historical_Chicago_24h	MJ67
UC212	2.81	937.22	55.00	0.5000	5yr-Historical_Chicago_24h	MJ22
UC213	4.46	1486.35	55.00	0.5000	5yr-Historical_Chicago_24h	MJ22
UC214	0.61	203.69	55.00	0.5000	5yr-Historical_Chicago_24h	MJ7
UC215	1.27	423.54	55.00	0.5000	5yr-Historical_Chicago_24h	MJ15
UC216	1.99	663.06	55.00	0.5000	5yr-Historical_Chicago_24h	MJ36
UC217	1.96	652.18	55.00	0.5000	5yr-Historical_Chicago_24h	MJ36
UC218	1.20	400.42	55.00	0.5000	5yr-Historical_Chicago_24h	MJ24
UC219	0.14	46.27	55.00	0.5000	5yr-Historical_Chicago_24h	MJ122
UC22	0.39	130.02	55.00	0.5000	5yr-Historical_Chicago_24h	MJ89
UC220	0.03	9.20	55.00	0.5000	5yr-Historical_Chicago_24h	MJ131
UC221	0.13	42.97	55.00	0.5000	5yr-Historical_Chicago_24h	MJ136
UC222	0.31	104.56	55.00	0.5000	5yr-Historical_Chicago_24h	MJ135
UC223	0.26	87.52	55.00	0.5000	5yr-Historical_Chicago_24h	MJ135
UC224	0.37	123.74	55.00	0.5000	5yr-Historical_Chicago_24h	MJ151
UC225	0.73	243.33	55.00	0.5000	5yr-Historical_Chicago_24h	MH8_S
UC226	1.64	548.17	5.00	0.5000	5yr-Historical_Chicago_24h	MH_34
UC227	3.44	1146.33	5.00	0.5000	5yr-Historical_Chicago_24h	MH_27
UC228	1.69	564.60	5.00	0.5000	5yr-Historical_Chicago_24h	MH_14

UC229	0.02	7.54	55.00	0.5000	5yr-Historical_Chicago_24h MJ64
UC23	0.33	111.21	55.00	0.5000	5yr-Historical_Chicago_24h MJ86
UC24	0.34	114.53	55.00	0.5000	5yr-Historical_Chicago_24h MJ80
UC25	0.31	104.28	55.00	0.5000	5yr-Historical_Chicago_24h MJ65
UC26	0.18	58.99	55.00	0.5000	5yr-Historical_Chicago_24h MJ76
UC27	0.15	50.82	55.00	0.5000	5yr-Historical_Chicago_24h MJ86
UC28	0.22	72.77	55.00	0.5000	5yr-Historical_Chicago_24h MJ69
UC29	0.26	85.34	55.00	0.5000	5yr-Historical_Chicago_24h MJ69
UC3	0.16	54.62	55.00	0.5000	5yr-Historical_Chicago_24h MJ102
UC30	0.05	17.37	20.00	0.5000	5yr-Historical_Chicago_24h MJ66
UC300	1.52	505.83	55.00	0.5000	5yr-Historical_Chicago_24h OF28-
UC301	4.36	1453.53	55.00	0.5000	5yr-Historical_Chicago_24h OF23-
UC302	0.47	158.17	55.00	0.5000	5yr-Historical_Chicago_24h OF26-M
UC303	0.55	184.73	55.00	0.5000	5yr-Historical_Chicago_24h OF27-1
UC304	2.14	712.20	55.00	0.5000	5yr-Historical_Chicago_24h OF21-
UC305	2.14	714.30	55.00	0.5000	5yr-Historical_Chicago_24h OF10-
UC306	0.69	229.93	5.00	0.5000	5yr-Historical_Chicago_24h J1
UC307	0.50	165.17	55.00	0.5000	5yr-Historical_Chicago_24h OF27-1
UC308	2.74	245.84	55.00	0.5000	5yr-Historical_Chicago_24h MJ12
UC309	0.46	154.37	55.00	0.5000	5yr-Historical_Chicago_24h OF17-
UC31	0.33	111.10	20.00	0.5000	5yr-Historical_Chicago_24h MJ55
UC310	0.71	238.23	55.00	0.5000	5yr-Historical_Chicago_24h OF19-
UC311	4.49	1495.23	55.00	0.5000	5yr-Historical_Chicago_24h OF15-
UC312	1.66	554.30	55.00	0.5000	5yr-Historical_Chicago_24h OF15-
UC313	7.10	2367.87	35.00	0.5000	5yr-Historical_Chicago_24h CBMH_1
UC314	0.23	77.97	55.00	0.5000	5yr-Historical_Chicago_24h OF18-M
UC315	0.94	313.53	55.00	0.5000	5yr-Historical_Chicago_24h OF5-M
UC316	0.64	214.80	55.00	0.5000	5yr-Historical_Chicago_24h OF5-M
UC317	0.59	197.20	55.00	0.5000	5yr-Historical_Chicago_24h OF4-M
UC318	0.63	210.60	20.00	0.5000	5yr-Historical_Chicago_24h OF3-
UC319	2.35	781.77	55.00	0.5000	5yr-Historical_Chicago_24h OF27-M
UC32	0.12	38.49	20.00	0.5000	5yr-Historical_Chicago_24h MJ48
UC33	0.80	266.66	20.00	0.5000	5yr-Historical_Chicago_24h MJ48
UC34	0.62	205.09	20.00	0.5000	5yr-Historical_Chicago_24h MJ55
UC35	0.06	18.45	55.00	0.5000	5yr-Historical_Chicago_24h MJ69
UC36	0.05	16.27	55.00	0.5000	5yr-Historical_Chicago_24h MJ60
UC37	0.10	32.31	20.00	0.5000	5yr-Historical_Chicago_24h MJ55
UC38	0.41	137.29	20.00	0.5000	5yr-Historical_Chicago_24h MJ37
UC39	0.14	47.24	55.00	0.5000	5yr-Historical_Chicago_24h MJ51
UC4	0.40	133.14	55.00	0.5000	5yr-Historical_Chicago_24h MJ102
UC40	0.09	30.17	55.00	0.5000	5yr-Historical_Chicago_24h MJ61

UC41	0.05	15.78	55.00	0.5000	5yr-Historical_Chicago_24h	MJ73
UC42	0.09	30.13	55.00	0.5000	5yr-Historical_Chicago_24h	MJ73
UC43	0.07	24.64	55.00	0.5000	5yr-Historical_Chicago_24h	MJ83
UC44	0.06	21.00	55.00	0.5000	5yr-Historical_Chicago_24h	MJ83
UC45	0.17	56.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ89
UC46	0.13	42.55	55.00	0.5000	5yr-Historical_Chicago_24h	MJ108
UC47	0.15	49.57	55.00	0.5000	5yr-Historical_Chicago_24h	MJ118
UC48	0.19	63.36	55.00	0.5000	5yr-Historical_Chicago_24h	MJ118
UC49	0.42	138.36	55.00	0.5000	5yr-Historical_Chicago_24h	CB20
UC5	0.51	169.28	55.00	0.5000	5yr-Historical_Chicago_24h	MJ103
UC50	0.29	95.42	55.00	0.5000	5yr-Historical_Chicago_24h	CB19
UC51	0.63	211.64	55.00	0.5000	5yr-Historical_Chicago_24h	MJ115
UC52	0.57	189.36	55.00	0.5000	5yr-Historical_Chicago_24h	MJ131
UC53	0.79	264.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ105
UC54	0.77	256.33	55.00	0.5000	5yr-Historical_Chicago_24h	MJ93
UC55	0.70	233.10	55.00	0.5000	5yr-Historical_Chicago_24h	MJ87
UC56	0.41	135.07	55.00	0.5000	5yr-Historical_Chicago_24h	MJ82
UC57	0.35	117.21	55.00	0.5000	5yr-Historical_Chicago_24h	MJ72
UC58	0.29	97.61	55.00	0.5000	5yr-Historical_Chicago_24h	MJ64
UC59	0.23	76.57	55.00	0.5000	5yr-Historical_Chicago_24h	MJ61
UC6	0.22	71.89	55.00	0.5000	5yr-Historical_Chicago_24h	MJ102
UC60	0.16	52.37	55.00	0.5000	5yr-Historical_Chicago_24h	MJ61
UC61	0.36	120.37	20.00	0.5000	5yr-Historical_Chicago_24h	MJ35
UC62	0.69	228.71	55.00	0.5000	5yr-Historical_Chicago_24h	MJ26
UC63	0.08	26.32	55.00	0.5000	5yr-Historical_Chicago_24h	MJ18
UC64	0.05	15.69	55.00	0.5000	5yr-Historical_Chicago_24h	MJ53
UC65	0.14	47.86	55.00	0.5000	5yr-Historical_Chicago_24h	MJ72
UC66	0.07	23.20	55.00	0.5000	5yr-Historical_Chicago_24h	MJ79
UC67	0.00	1.18	55.00	0.5000	5yr-Historical_Chicago_24h	MJ79
UC68	0.24	78.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ74
UC69	0.04	11.73	55.00	0.5000	5yr-Historical_Chicago_24h	MJ78
UC7	0.30	99.82	55.00	0.5000	5yr-Historical_Chicago_24h	MJ113
UC70	0.05	18.24	55.00	0.5000	5yr-Historical_Chicago_24h	MJ75
UC71	0.84	220.45	55.00	0.5000	5yr-Historical_Chicago_24h	Rice_Pond
UC72	0.06	18.71	55.00	0.5000	5yr-Historical_Chicago_24h	MJ81
UC73	0.36	121.41	55.00	0.5000	5yr-Historical_Chicago_24h	MJ90
UC74	15.94	4116.06	5.00	0.5000	5yr-Historical_Chicago_24h	OF24-
UC75	0.21	69.77	55.00	0.5000	5yr-Historical_Chicago_24h	MJ93
UC76	0.32	105.90	55.00	0.5000	5yr-Historical_Chicago_24h	MJ81
UC77	0.27	89.05	55.00	0.5000	5yr-Historical_Chicago_24h	MJ59
UC78	0.39	130.61	55.00	0.5000	5yr-Historical_Chicago_24h	MJ42

UC79	0.06	18.52	55.00	0.5000	5yr-Historical_Chicago_24h	MJ117
UC8	0.45	148.58	55.00	0.5000	5yr-Historical_Chicago_24h	MJ120
UC80	0.03	9.53	55.00	0.5000	5yr-Historical_Chicago_24h	MJ64
UC81	0.25	81.93	55.00	0.5000	5yr-Historical_Chicago_24h	MJ115
UC82	0.45	151.11	55.00	0.5000	5yr-Historical_Chicago_24h	MJ90
UC83	0.19	61.70	55.00	0.5000	5yr-Historical_Chicago_24h	OF5-M
UC84	1.13	376.24	20.00	0.5000	5yr-Historical_Chicago_24h	MJ9
UC85	0.42	138.40	55.00	0.5000	5yr-Historical_Chicago_24h	MJ74
UC86	0.33	109.61	55.00	0.5000	5yr-Historical_Chicago_24h	MJ59
UC87	0.15	48.47	55.00	0.5000	5yr-Historical_Chicago_24h	MJ56
UC88	0.16	53.96	55.00	0.5000	5yr-Historical_Chicago_24h	MJ52
UC89	0.36	119.67	55.00	0.5000	5yr-Historical_Chicago_24h	MJ52
UC9	0.47	158.00	55.00	0.5000	5yr-Historical_Chicago_24h	MJ127
UC90	0.14	47.36	55.00	0.5000	5yr-Historical_Chicago_24h	MJ58
UC91	0.04	14.63	55.00	0.5000	5yr-Historical_Chicago_24h	MJ47
UC92	0.08	27.04	55.00	0.5000	5yr-Historical_Chicago_24h	MJ47
UC93	0.21	69.53	55.00	0.5000	5yr-Historical_Chicago_24h	MJ38
UC94	0.17	55.62	55.00	0.5000	5yr-Historical_Chicago_24h	MJ38
UC95	0.10	31.80	55.00	0.5000	5yr-Historical_Chicago_24h	MJ46
UC96	0.23	75.23	55.00	0.5000	5yr-Historical_Chicago_24h	MJ29
UC97	0.14	46.20	55.00	0.5000	5yr-Historical_Chicago_24h	MJ29
UC98	0.22	73.89	55.00	0.5000	5yr-Historical_Chicago_24h	MJ47
UC99	0.33	111.47	55.00	0.5000	5yr-Historical_Chicago_24h	MJ17

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
CB15	JUNCTION	181.70	1.40	0.0	
CB16	JUNCTION	181.95	1.58	0.0	
CB17	JUNCTION	180.27	2.86	0.0	
CB18	JUNCTION	181.40	1.68	0.0	
CB19	JUNCTION	181.60	1.50	0.0	
CB20	JUNCTION	181.34	1.76	0.0	
CB21	JUNCTION	180.51	2.49	0.0	
CB22	JUNCTION	181.20	2.30	0.0	
CB23	JUNCTION	181.45	1.85	0.0	
CB26	JUNCTION	179.34	3.28	0.0	

CB27	JUNCTION	182.57	1.72	0.0
CB29	JUNCTION	185.26	0.85	0.0
CB30	JUNCTION	185.15	0.91	0.0
CB30_1	JUNCTION	183.93	1.57	0.0
CB31	JUNCTION	183.49	1.13	0.0
CB32	JUNCTION	183.42	1.22	0.0
CB33	JUNCTION	183.34	1.39	0.0
CB34	JUNCTION	184.40	0.74	0.0
CB35	JUNCTION	184.20	0.95	0.0
CB41	JUNCTION	181.77	0.85	0.0
CB42	JUNCTION	181.15	1.50	0.0
CB-58	JUNCTION	180.43	2.10	0.0
CBMH_1	JUNCTION	181.53	1.47	0.0
CBMH_40	JUNCTION	182.75	2.25	0.0
CBMH_41	JUNCTION	182.52	1.98	0.0
CBMH_42	JUNCTION	182.82	1.68	0.0
CBMH_44	JUNCTION	182.43	1.87	0.0
CBMH_46	JUNCTION	182.00	2.03	0.0
CBMH_62	JUNCTION	182.63	1.56	0.0
CBMH1	JUNCTION	182.55	1.45	0.0
CBMH1_ON	JUNCTION	184.86	1.26	0.0
CBMH10_Main	JUNCTION	179.41	2.02	0.0
CBMH2	JUNCTION	180.73	3.49	0.0
CBMH2_ON	JUNCTION	184.54	2.00	0.0
CBMH3_ON	JUNCTION	184.25	2.33	0.0
CBMH4_ON	JUNCTION	183.99	2.41	0.0
CBMH5	JUNCTION	179.80	2.75	0.0
CBMH5_ON	JUNCTION	184.05	2.30	0.0
CBMH6_ON	JUNCTION	183.89	2.26	0.0
CBMH7	JUNCTION	182.38	1.87	0.0
CBMH7_ON	JUNCTION	183.71	1.58	0.0
CBMH8_ON	JUNCTION	183.26	1.51	0.0
CBMH9_ON	JUNCTION	182.74	1.61	0.0
DCB72	JUNCTION	180.43	1.45	0.0
DICBMH42	JUNCTION	176.65	2.45	0.0
J1	JUNCTION	183.00	2.00	0.0
J101	JUNCTION	180.77	1.30	0.0
J102	JUNCTION	180.30	1.74	0.0
J105	JUNCTION	183.98	1.52	0.0
J106	JUNCTION	183.62	1.13	0.0
J110	JUNCTION	180.82	1.39	0.0

J113	JUNCTION	180.92	1.25	0.0
J115	JUNCTION	183.07	1.93	0.0
J116	JUNCTION	176.45	1.41	0.0
J12	JUNCTION	183.32	3.08	0.0
J125	JUNCTION	178.39	4.50	0.0
J127	JUNCTION	180.71	2.36	0.0
J128	JUNCTION	180.92	2.45	0.0
J15	JUNCTION	180.71	3.09	0.0
J2	JUNCTION	182.87	2.00	0.0
J20	JUNCTION	179.51	3.24	0.0
J24	JUNCTION	177.76	4.94	0.0
J3	JUNCTION	181.58	2.00	0.0
J30	JUNCTION	186.43	2.77	0.0
J31	JUNCTION	185.91	3.09	0.0
J34	JUNCTION	181.75	1.62	0.0
J35	JUNCTION	181.98	1.23	0.0
J36	JUNCTION	179.96	3.79	0.0
J38	JUNCTION	180.00	3.26	0.0
J4	JUNCTION	185.20	2.55	0.0
J42	JUNCTION	179.01	3.19	0.0
J43	JUNCTION	178.80	3.55	0.0
J47	JUNCTION	179.99	2.53	0.0
J48	JUNCTION	180.60	3.90	0.0
J49	JUNCTION	180.92	2.12	0.0
J5	JUNCTION	184.85	3.65	0.0
J50	JUNCTION	178.47	4.13	0.0
J52	JUNCTION	178.68	3.32	0.0
J55	JUNCTION	178.50	3.72	0.0
J6	JUNCTION	181.23	2.00	0.0
J62	JUNCTION	178.38	4.00	0.0
J66	JUNCTION	176.80	1.21	0.0
J67	JUNCTION	176.71	1.02	0.0
J7	JUNCTION	182.39	2.00	0.0
J70	JUNCTION	175.92	1.45	0.0
J78	JUNCTION	0.00	0.30	0.0
J8	JUNCTION	184.40	1.77	0.0
J83	JUNCTION	0.00	0.30	0.0
J91	JUNCTION	178.37	4.55	0.0
J93	JUNCTION	182.16	0.74	0.0
J95	JUNCTION	182.38	0.64	0.0
J98	JUNCTION	181.18	0.86	0.0

MH_1	JUNCTION	181.24	2.76	0.0
MH_11	JUNCTION	183.13	3.33	0.0
MH_14	JUNCTION	183.75	2.84	0.0
MH_15	JUNCTION	182.74	3.11	0.0
MH_16	JUNCTION	182.59	3.03	0.0
MH_17	JUNCTION	182.15	2.72	0.0
MH_2	JUNCTION	180.60	1.90	0.0
MH_27	JUNCTION	183.07	2.54	0.0
MH_29	JUNCTION	183.90	1.74	0.0
MH_30	JUNCTION	183.08	2.19	0.0
MH_34	JUNCTION	183.13	2.94	0.0
MH_35	JUNCTION	182.73	2.96	0.0
MH_36	JUNCTION	182.63	2.91	0.0
MH_37	JUNCTION	182.25	2.93	0.0
MH_38	JUNCTION	182.02	2.87	0.0
MH_39	JUNCTION	181.68	2.80	0.0
MH_43	JUNCTION	182.56	1.74	0.0
MH_45	JUNCTION	182.14	1.89	0.0
MH_47	JUNCTION	181.56	2.77	0.0
MH_56	JUNCTION	183.17	0.83	0.0
MH_57	JUNCTION	182.84	1.26	0.0
MH_58	JUNCTION	182.68	1.46	0.0
MH_59	JUNCTION	183.44	1.06	0.0
MH_61	JUNCTION	183.17	1.33	0.0
MH_63	JUNCTION	182.46	1.79	0.0
MH_64	JUNCTION	182.20	2.23	0.0
MH_65	JUNCTION	181.87	2.45	0.0
MH_66	JUNCTION	181.81	2.42	0.0
MH_67	JUNCTION	181.33	2.72	0.0
MH_68	JUNCTION	181.12	2.23	0.0
MH_69	JUNCTION	180.26	3.94	0.0
MH_70	JUNCTION	179.67	2.41	0.0
MH1	JUNCTION	181.11	2.89	0.0
MH1_Main	JUNCTION	183.85	1.77	0.0
MH10	JUNCTION	179.50	3.65	0.0
MH10__S	JUNCTION	183.15	2.00	0.0
MH10_Main	JUNCTION	176.78	2.27	0.0
MH11	JUNCTION	179.30	3.47	0.0
MH11__S	JUNCTION	182.77	2.00	0.0
MH11_Main	JUNCTION	176.34	2.32	0.0
MH12	JUNCTION	181.20	1.87	0.0

MH13	JUNCTION	178.80	4.45	0.0
MH13_Main	JUNCTION	181.26	1.68	0.0
MH13_Main_	JUNCTION	180.75	1.93	0.0
MH14	JUNCTION	178.35	5.60	0.0
MH14_Main	JUNCTION	180.55	2.15	0.0
MH15	JUNCTION	178.20	5.71	0.0
MH15_Main	JUNCTION	180.49	2.55	0.0
MH16	JUNCTION	178.00	5.20	0.0
MH2	JUNCTION	181.00	2.95	0.0
MH2_Main	JUNCTION	183.35	1.52	0.0
MH2_S	JUNCTION	183.95	2.00	0.0
MH21	JUNCTION	181.12	1.98	0.0
MH21_S	JUNCTION	182.80	2.00	0.0
MH22	JUNCTION	180.69	2.21	0.0
MH23	JUNCTION	180.76	2.04	0.0
MH24	JUNCTION	180.59	2.18	0.0
MH25	JUNCTION	180.10	2.85	0.0
MH25-1	JUNCTION	180.26	2.69	0.0
MH26	JUNCTION	179.76	3.09	0.0
MH3	JUNCTION	180.92	3.19	0.0
MH3_Main	JUNCTION	182.82	2.67	0.0
MH3_S	JUNCTION	184.11	2.00	0.0
MH30	JUNCTION	179.43	2.82	0.0
MH31	JUNCTION	179.33	3.10	0.0
MH32	JUNCTION	179.21	2.82	0.0
MH33	JUNCTION	179.13	2.90	0.0
MH34	JUNCTION	179.06	2.06	0.0
MH34_S	JUNCTION	181.48	2.00	0.0
MH35	JUNCTION	178.95	2.88	0.0
MH36	JUNCTION	178.83	3.13	0.0
MH36_S	JUNCTION	181.97	2.00	0.0
MH37	JUNCTION	179.80	2.54	0.0
MH37_S	JUNCTION	182.34	2.00	0.0
MH38	JUNCTION	179.55	2.72	0.0
MH39	JUNCTION	179.41	2.76	0.0
MH4	JUNCTION	180.70	3.46	0.0
MH4_Main	JUNCTION	181.66	2.60	0.0
MH40	JUNCTION	178.83	3.25	0.0
MH41	JUNCTION	178.68	3.18	0.0
MH41_S	JUNCTION	181.86	2.00	0.0
MH42	JUNCTION	177.44	2.00	0.0

MH43	JUNCTION	177.28	4.82	0.0
MH5	JUNCTION	182.45	2.55	0.0
MH5_Main	JUNCTION	180.75	2.08	0.0
MH6	JUNCTION	182.32	2.68	0.0
MH6_Main	JUNCTION	180.24	3.03	0.0
MH7	JUNCTION	182.10	1.90	0.0
MH7_Main	JUNCTION	180.25	1.77	0.0
MH8	JUNCTION	180.51	3.45	0.0
MH8_Main	JUNCTION	177.56	1.91	0.0
MH8_S	JUNCTION	183.96	2.00	0.0
MH9	JUNCTION	180.27	3.46	0.0
MH9__S	JUNCTION	183.22	2.00	0.0
MH9_Main	JUNCTION	177.61	1.93	0.0
MJ_	JUNCTION	182.63	2.00	0.0
MJ1	JUNCTION	177.47	2.00	0.0
MJ10	JUNCTION	183.50	2.00	0.0
MJ100	JUNCTION	182.26	2.00	0.0
MJ101	JUNCTION	183.69	2.00	0.0
MJ102	JUNCTION	182.86	2.00	0.0
MJ103	JUNCTION	183.01	2.00	0.0
MJ104	JUNCTION	184.20	2.00	0.0
MJ105	JUNCTION	184.47	2.00	0.0
MJ106	JUNCTION	183.57	2.00	0.0
MJ107	JUNCTION	184.16	2.00	0.0
MJ108	JUNCTION	185.68	2.00	0.0
MJ109	JUNCTION	184.90	2.00	0.0
MJ11	JUNCTION	178.72	2.00	0.0
MJ110	JUNCTION	182.03	2.00	0.0
MJ111	JUNCTION	182.56	2.00	0.0
MJ112	JUNCTION	180.63	2.00	0.0
MJ113	JUNCTION	184.24	2.00	0.0
MJ114	JUNCTION	184.53	2.00	0.0
MJ115	JUNCTION	185.42	2.00	0.0
MJ116	JUNCTION	181.97	2.00	0.0
MJ117	JUNCTION	185.54	2.00	0.0
MJ118	JUNCTION	184.71	2.00	0.0
MJ119	JUNCTION	180.21	2.00	0.0
MJ12	JUNCTION	179.00	2.00	0.0
MJ120	JUNCTION	183.93	2.00	0.0
MJ121	JUNCTION	186.66	2.00	0.0
MJ122	JUNCTION	184.25	2.00	0.0

MJ123	JUNCTION	187.14	2.00	0.0
MJ124	JUNCTION	180.38	2.00	0.0
MJ125	JUNCTION	186.11	2.00	0.0
MJ126	JUNCTION	185.15	2.03	0.0
MJ127	JUNCTION	185.86	2.00	0.0
MJ128	JUNCTION	182.09	2.00	0.0
MJ129	JUNCTION	181.77	2.00	0.0
MJ13	JUNCTION	178.60	2.00	0.0
MJ130	JUNCTION	186.07	2.00	0.0
MJ131	JUNCTION	184.25	2.00	0.0
MJ132	JUNCTION	181.74	2.00	0.0
MJ133	JUNCTION	186.56	2.00	0.0
MJ134	JUNCTION	181.39	2.00	0.0
MJ135	JUNCTION	183.25	2.00	0.0
MJ136	JUNCTION	183.36	2.00	0.0
MJ137	JUNCTION	182.43	2.00	0.0
MJ138	JUNCTION	187.83	2.00	0.0
MJ139	JUNCTION	181.93	2.00	0.0
MJ14	JUNCTION	181.49	2.00	0.0
MJ140	JUNCTION	182.17	2.00	0.0
MJ142	JUNCTION	182.62	2.00	0.0
MJ143	JUNCTION	184.16	2.00	0.0
MJ144	JUNCTION	182.85	2.00	0.0
MJ145	JUNCTION	182.53	2.00	0.0
MJ146	JUNCTION	182.36	2.00	0.0
MJ147	JUNCTION	183.01	2.00	0.0
MJ148	JUNCTION	183.01	2.00	0.0
MJ149	JUNCTION	184.00	2.00	0.0
MJ15	JUNCTION	188.53	2.00	0.0
MJ150	JUNCTION	184.44	2.00	0.0
MJ151	JUNCTION	183.38	2.00	0.0
MJ152	JUNCTION	183.70	2.00	0.0
MJ153	JUNCTION	184.32	1.56	0.0
MJ154	JUNCTION	184.48	1.98	0.0
MJ155	JUNCTION	185.18	2.00	0.0
MJ156	JUNCTION	185.85	2.00	0.0
MJ157	JUNCTION	186.21	2.00	0.0
MJ158	JUNCTION	183.48	2.00	0.0
MJ16	JUNCTION	178.64	2.00	0.0
MJ17	JUNCTION	181.83	2.00	0.0
MJ18	JUNCTION	183.36	2.00	0.0

MJ19	JUNCTION	180.99	2.00	0.0
MJ2	JUNCTION	177.75	2.00	0.0
MJ20	JUNCTION	183.28	2.00	0.0
MJ21	JUNCTION	178.93	2.00	0.0
MJ22	JUNCTION	186.16	2.00	0.0
MJ23	JUNCTION	179.26	2.00	0.0
MJ24	JUNCTION	181.81	2.00	0.0
MJ25	JUNCTION	183.46	2.00	0.0
MJ26	JUNCTION	182.88	2.00	0.0
MJ27	JUNCTION	179.82	2.00	0.0
MJ28	JUNCTION	183.09	2.00	0.0
MJ29	JUNCTION	181.04	2.00	0.0
MJ3	JUNCTION	177.39	2.00	0.0
MJ30	JUNCTION	181.35	2.00	0.0
MJ31	JUNCTION	181.07	2.00	0.0
MJ32	JUNCTION	181.94	2.00	0.0
MJ33	JUNCTION	181.69	2.00	0.0
MJ34	JUNCTION	179.69	2.00	0.0
MJ35	JUNCTION	180.16	2.00	0.0
MJ36	JUNCTION	182.67	2.00	0.0
MJ37	JUNCTION	178.64	2.00	0.0
MJ38	JUNCTION	181.67	2.00	0.0
MJ39	JUNCTION	183.95	2.00	0.0
MJ4	JUNCTION	179.70	2.00	0.0
MJ40	JUNCTION	182.92	2.00	0.0
MJ41	JUNCTION	183.49	2.00	0.0
MJ42	JUNCTION	180.66	2.00	0.0
MJ43	JUNCTION	186.65	2.00	0.0
MJ44	JUNCTION	183.40	2.00	0.0
MJ45	JUNCTION	184.79	2.00	0.0
MJ46	JUNCTION	181.56	2.00	0.0
MJ47	JUNCTION	182.83	2.00	0.0
MJ48	JUNCTION	176.45	2.00	0.0
MJ49	JUNCTION	182.90	2.00	0.0
MJ5	JUNCTION	183.63	2.00	0.0
MJ50	JUNCTION	182.60	2.00	0.0
MJ51	JUNCTION	181.03	2.00	0.0
MJ52	JUNCTION	182.59	2.00	0.0
MJ53	JUNCTION	182.25	2.00	0.0
MJ54	JUNCTION	182.45	2.00	0.0
MJ55	JUNCTION	178.53	2.00	0.0

MJ56	JUNCTION	182.92	2.00	0.0
MJ57	JUNCTION	178.83	2.00	0.0
MJ58	JUNCTION	182.42	2.00	0.0
MJ59	JUNCTION	181.95	2.00	0.0
MJ60	JUNCTION	180.01	2.00	0.0
MJ61	JUNCTION	180.74	2.00	0.0
MJ62	JUNCTION	183.87	2.00	0.0
MJ63	JUNCTION	182.23	2.00	0.0
MJ64	JUNCTION	182.17	2.00	0.0
MJ65	JUNCTION	182.48	2.00	0.0
MJ66	JUNCTION	180.29	2.00	0.0
MJ67	JUNCTION	185.99	2.00	0.0
MJ68	JUNCTION	184.22	2.00	0.0
MJ69	JUNCTION	182.30	2.00	0.0
MJ7	JUNCTION	186.59	2.00	0.0
MJ70	JUNCTION	183.26	2.00	0.0
MJ71	JUNCTION	179.00	2.00	0.0
MJ72	JUNCTION	182.44	2.00	0.0
MJ73	JUNCTION	182.35	2.00	0.0
MJ74	JUNCTION	182.65	2.00	0.0
MJ75	JUNCTION	182.97	2.00	0.0
MJ76	JUNCTION	183.74	2.00	0.0
MJ77	JUNCTION	182.36	2.00	0.0
MJ78	JUNCTION	183.13	2.00	0.0
MJ79	JUNCTION	182.65	2.02	0.0
MJ8	JUNCTION	189.00	2.00	0.0
MJ80	JUNCTION	182.72	2.00	0.0
MJ81	JUNCTION	183.15	2.00	0.0
MJ82	JUNCTION	182.69	2.00	0.0
MJ83	JUNCTION	182.48	2.00	0.0
MJ84	JUNCTION	185.65	2.00	0.0
MJ85	JUNCTION	183.89	2.00	0.0
MJ86	JUNCTION	184.35	2.00	0.0
MJ87	JUNCTION	183.32	2.00	0.0
MJ88	JUNCTION	183.05	2.00	0.0
MJ89	JUNCTION	182.76	2.00	0.0
MJ9	JUNCTION	178.63	2.00	0.0
MJ90	JUNCTION	181.67	2.00	0.0
MJ91	JUNCTION	184.14	2.00	0.0
MJ92	JUNCTION	185.97	2.00	0.0
MJ93	JUNCTION	184.97	2.00	0.0

MJ94	JUNCTION	184.52	2.00	0.0
MJ95	JUNCTION	181.16	2.00	0.0
MJ96	JUNCTION	182.91	2.00	0.0
MJ97	JUNCTION	182.44	2.00	0.0
MJ98	JUNCTION	183.37	2.00	0.0
MJ99	JUNCTION	185.38	2.00	0.0
OGS-	JUNCTION	180.49	1.51	0.0
RICE_POND_OUTLET	JUNCTION	180.82	1.22	0.0
OF10-	OUTFALL	0.00	0.00	0.0
OF11-M	OUTFALL	183.10	1.10	0.0
OF12-	OUTFALL	179.15	0.68	0.0
OF13-	OUTFALL	180.31	0.45	0.0
OF14-	OUTFALL	179.55	0.53	0.0
OF15-	OUTFALL	177.00	0.00	0.0
OF16-	OUTFALL	177.00	0.45	0.0
OF17-	OUTFALL	177.80	0.75	0.0
OF18-M	OUTFALL	179.15	0.00	0.0
OF19-	OUTFALL	178.15	0.82	0.0
OF1-M	OUTFALL	175.00	1.00	0.0
OF20-	OUTFALL	179.15	0.45	0.0
OF21-	OUTFALL	179.15	0.00	0.0
OF22_M	OUTFALL	181.25	1.10	0.0
OF23-	OUTFALL	0.00	0.00	0.0
OF24-	OUTFALL	177.26	0.60	0.0
OF25-	OUTFALL	177.59	0.25	0.0
OF26-M	OUTFALL	178.53	1.10	0.0
OF27-1	OUTFALL	177.18	0.82	0.0
OF27-M	OUTFALL	178.86	0.50	0.0
OF28-	OUTFALL	0.00	0.00	0.0
OF29-	OUTFALL	178.63	0.30	0.0
OF2-M	OUTFALL	177.10	1.10	0.0
OF2-M-	OUTFALL	177.10	1.10	0.0
OF3-	OUTFALL	176.00	0.45	0.0
OF30-M	OUTFALL	179.83	0.48	0.0
OF31-M	OUTFALL	181.38	1.10	0.0
OF32-M	OUTFALL	184.92	1.10	0.0
OF33-	OUTFALL	177.03	0.82	0.0
OF34-	OUTFALL	0.00	0.00	0.0
OF35-	OUTFALL	0.00	0.00	0.0
OF36-	OUTFALL	0.00	0.00	0.0
OF37-	OUTFALL	0.00	0.00	0.0

OF38-	OUTFALL	0.00	0.00	0.0
OF39-	OUTFALL	0.00	0.00	0.0
OF3-M	OUTFALL	177.73	0.48	0.0
OF40-	OUTFALL	0.00	0.00	0.0
OF41-	OUTFALL	0.00	0.00	0.0
OF42-	OUTFALL	0.00	0.00	0.0
OF43-	OUTFALL	0.00	0.00	0.0
OF44-	OUTFALL	0.00	0.00	0.0
OF45-	OUTFALL	0.00	0.00	0.0
OF46-	OUTFALL	0.00	0.00	0.0
OF47-	OUTFALL	0.00	0.00	0.0
OF48-	OUTFALL	0.00	0.00	0.0
OF49-	OUTFALL	0.00	0.00	0.0
OF4-M	OUTFALL	175.62	1.10	0.0
OF50	OUTFALL	0.00	0.00	0.0
OF51	OUTFALL	0.00	0.00	0.0
OF52	OUTFALL	0.00	0.00	0.0
OF53	OUTFALL	0.00	0.00	0.0
OF54	OUTFALL	0.00	0.00	0.0
OF55	OUTFALL	0.00	0.00	0.0
OF56	OUTFALL	0.00	0.00	0.0
OF57	OUTFALL	0.00	0.00	0.0
OF58	OUTFALL	0.00	0.00	0.0
OF59	OUTFALL	0.00	0.00	0.0
OF5-M	OUTFALL	182.86	1.10	0.0
OF6-	OUTFALL	175.50	0.38	0.0
OF60	OUTFALL	0.00	0.00	0.0
OF61	OUTFALL	0.00	0.00	0.0
OF62	OUTFALL	0.00	0.00	0.0
OF7-M	OUTFALL	177.13	1.10	0.0
OF8-	OUTFALL	176.00	0.15	0.0
OF9-M	OUTFALL	179.04	0.48	0.0
Gill_RD_Pond	STORAGE	176.65	2.85	0.0
Rice_Pond	STORAGE	179.25	4.75	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness

C_dummy	MJ48	OF1-M	CONDUIT	7.2	20.4772	0.0100
C1	J24	OF33-	CONDUIT	89.0	0.8236	0.0130
C100	MH_39	MH_47	CONDUIT	24.9	0.2366	0.0130
C106	MH_37	MH_38	CONDUIT	44.0	0.5205	0.0130
C108	CBMH_40	CBMH_41	CONDUIT	54.3	0.3717	0.0130
C110	CBMH_41	MH_45	CONDUIT	16.0	0.6109	0.0130
C111	CBMH_44	MH_45	CONDUIT	24.6	0.8692	0.0130
C113	MH_43	CBMH_44	CONDUIT	23.6	0.3733	0.0130
C114	CBMH_42	MH_43	CONDUIT	10.9	0.6398	0.0130
C115	J115	CBMH_42	CONDUIT	60.3	0.3733	0.0130
C116	MH_45	CBMH_46	CONDUIT	20.1	0.5367	0.0130
C118	CBMH_46	MH_47	CONDUIT	15.5	1.0454	0.0130
C119_1	CBMH_46	MH_47	CONDUIT	15.5	0.7550	0.0130
C119_2	MH_47	MH_67	CONDUIT	70.5	0.2921	0.0130
C123	MH_66	MH_67	CONDUIT	29.6	0.3513	0.0130
C124	MH_65	MH_66	CONDUIT	13.3	0.1802	0.0130
C125	MH_67	MH_68	CONDUIT	20.9	0.6846	0.0130
C126	MH_68	Rice_Pond	CONDUIT	6.4	0.3569	0.0130
C127	RICE_POND_OUTLET	MH_69	CONDUIT	56.2	0.8861	0.0130
C128	MH_69	MH_70	CONDUIT	68.2	0.7859	0.0130
C129	MH_70	OF14-	CONDUIT	15.0	0.8000	0.0130
C130	MH_64	MH_65	CONDUIT	81.8	0.3336	0.0130
C145	MH_56	MH_57	CONDUIT	60.6	0.4452	0.0130
C147	MH_57	MH_58	CONDUIT	13.0	0.6923	0.0130
C150	MH_58	MH_63	CONDUIT	18.3	0.5188	0.0130
C151	CBMH_62	MH_63	CONDUIT	16.2	0.5695	0.0130
C156	MH_61	CBMH_62	CONDUIT	90.9	0.5733	0.0130
C159	MH_59	MH_61	CONDUIT	34.7	0.6925	0.0130
C160	J106	MH_59	CONDUIT	30.5	0.4918	0.0130
C161	J105	J106	CONDUIT	66.0	0.5000	0.0130
C164	CBMH5	OF16-	CONDUIT	45.6	6.1581	0.0130
C165	J38	CBMH5	CONDUIT	22.7	0.8824	0.0130
C167	MH40	MH41	CONDUIT	49.1	0.3078	0.0130
C185	MH30	MH31	CONDUIT	37.4	0.1870	0.0130
C186	MH31	MH32	CONDUIT	50.8	0.2028	0.0130
C187	MH32	MH33	CONDUIT	15.1	0.2514	0.0130
C188	MH33	MH40	CONDUIT	109.6	0.2518	0.0130
C189	DCB72	MH37	CONDUIT	32.5	1.5263	0.0130
C190	MH37	MH38	CONDUIT	61.1	0.3337	0.0130
C193	MH38	MH39	CONDUIT	17.3	0.3808	0.0130
C194	MH39	MH40	CONDUIT	118.9	0.3961	0.0130

C2	MH_38	MH_39	CONDUIT	70.0	0.3500	0.0130
C200-	MH8	MH9	CONDUIT	36.4	0.6039	0.0130
C205	MH34	MH35	CONDUIT	23.5	0.2973	0.0130
C206	MH35	MH36	CONDUIT	24.6	0.2316	0.0130
C207	MH36	MH41	CONDUIT	28.7	0.2716	0.0130
C211	DICBMH42	MH42	CONDUIT	6.5	-12.8118	0.0130
C212	MH42	MH43	CONDUIT	68.8	0.1904	0.0130
C213	MH43	OF27-1	CONDUIT	52.8	0.1894	0.0130
C228	MH15_Main	MH6_Main	CONDUIT	16.9	1.4799	0.0130
C229	CB29	CB30	CONDUIT	6.2	1.7808	0.0130
C230	CB30_1	MH1_Main	CONDUIT	4.4	1.8111	0.0130
C231	CB33	MH2_Main	CONDUIT	2.5	-0.4040	0.0130
C232	CB31	CB32	CONDUIT	7.2	0.9773	0.0130
C233	CB32	MH2_Main	CONDUIT	12.5	0.5619	0.0130
C234	CB34	CB35	CONDUIT	6.7	1.4976	0.0130
C235	CB35	MH3_Main	CONDUIT	15.4	1.9516	0.0130
C239	CB42	MH5_Main	CONDUIT	15.1	1.3216	0.0130
C240	CB41	CB42	CONDUIT	6.9	2.8989	0.0130
C244	J49	MH15_Main	CONDUIT	6.0	2.1828	0.0130
C245	CB27	J48	CONDUIT	19.7	0.3548	0.0130
C246	J48	CBMH2	CONDUIT	23.9	2.5536	0.0130
C248	MH15	MH16	CONDUIT	44.7	0.4030	0.0130
C250	CB22	MH13	CONDUIT	9.6	10.4286	0.0130
C251	CB23	MH13	CONDUIT	9.8	1.0153	0.0130
C252	CB19	CB20	CONDUIT	15.2	1.4464	0.0130
C253	CB20	MH12	CONDUIT	15.9	0.8790	0.0130
C254	MH12	MH11	CONDUIT	12.7	7.2666	0.0130
C255	CB21	MH11	CONDUIT	3.3	9.6397	0.0130
C256	CB17	MH10	CONDUIT	13.1	1.2953	0.0130
C257	CB18	MH10	CONDUIT	2.9	3.4408	0.0130
C258	CB15	MH9	CONDUIT	9.3	0.2144	0.0130
C259	CB16	MH9	CONDUIT	4.3	2.3431	0.0130
C26	MH_11	MH_15	CONDUIT	56.2	0.5422	0.0130
C260	MH7	MH8	CONDUIT	81.0	0.4319	0.0130
C263	CBMH7	MH4	CONDUIT	22.6	1.2808	0.0130
C269	CBMH2	MH16	CONDUIT	20.1	3.1390	0.0130
C27	MH_14	MH_15	CONDUIT	97.1	0.8287	0.0130
C28	MH_15	MH_16	CONDUIT	22.7	0.6432	0.0130
C281	MH6	MH7	CONDUIT	43.9	0.4552	0.0130
C284	MH5	MH6	CONDUIT	23.2	0.3450	0.0130
C285	CBMH1	MH6	CONDUIT	41.3	0.3630	0.0130

C288	CBMH_1	MH_1	CONDUIT	47.1	0.4202	0.0130
C289	MH_1	MH_2	CONDUIT	75.0	0.7815	0.0130
C292	MH_2	OGS-	CONDUIT	18.2	0.4671	0.0130
C293	OGS-	OF13-	CONDUIT	18.7	0.9573	0.0130
C3	MH_17	MH_39	CONDUIT	58.3	0.4049	0.0100
C343	MH21	MH22	CONDUIT	21.6	0.1389	0.0130
C344	MH23	MH24	CONDUIT	93.3	0.1822	0.0130
C345	MH24	CB-58	CONDUIT	59.4	0.2357	0.0130
C346	MH25	MH26	CONDUIT	70.2	0.4845	0.0130
C347	MH26	OF24-	CONDUIT	50.3	4.9804	0.0130
C348	J125	J91	CONDUIT	8.0	-0.1248	0.0130
C349	J127	J125	CONDUIT	66.5	3.4622	0.0130
C350	J128	J127	CONDUIT	67.2	0.3125	0.0130
C351	J67	J70	CONDUIT	91.7	0.7678	0.0130
C352	J70	OF6-	CONDUIT	47.1	0.8940	0.0130
C353	J66	J116	CONDUIT	35.7	0.9794	0.0130
C4	MH_63	MH_64	CONDUIT	62.9	0.3243	0.0130
C437	J34	J128	CONDUIT	25.2	1.3320	0.0130
C48	MH_29	MH_30	CONDUIT	69.5	0.6041	0.0130
C5	MJ139	Gill_RD_Pond	CONDUIT	76.4	6.9284	0.0110
C50	MH_30	MH_37	CONDUIT	16.3	2.0267	0.0130
C53	MH_27	MH_37	CONDUIT	92.0	0.8152	0.0130
C54	MH_36	MH_37	CONDUIT	63.5	0.3592	0.0130
C6	J1	J7	CONDUIT	181.3	0.3365	0.0300
C653	MH11	MH13	CONDUIT	42.7	0.3981	0.0130
C655	MH3	MH4	CONDUIT	63.9	0.3132	0.0130
C656	MH2	MH3	CONDUIT	42.8	0.1401	0.0130
C657	MH13	CB26	CONDUIT	68.0	0.8672	0.0130
C658	MH13	MH14	CONDUIT	40.7	0.3932	0.0130
C660	MH9_Main	MH10_Main	CONDUIT	134.7	0.6089	0.0130
C662	MH6_Main	MH7_Main	CONDUIT	92.1	-0.0109	0.0130
C663	MH4_Main	MH5_Main	CONDUIT	85.2	0.9513	0.0130
C664	MH2_Main	MH3_Main	CONDUIT	67.3	0.7871	0.0130
C665	CB30	MH1_Main	CONDUIT	16.6	7.8707	0.0130
C666	MH16	OF17-	CONDUIT	30.3	0.6605	0.0130
C667	CBMH7_ON	CBMH8_ON	CONDUIT	93.3	0.4104	0.0130
C668	CBMH9_ON	CBMH10_Main	CONDUIT	10.0	31.7073	0.0130
C669	CBMH10_Main	OF19-	CONDUIT	19.7	6.4158	0.0130
C670	CBMH3_ON	CBMH4_ON	CONDUIT	68.5	0.3604	0.0130
C671	CBMH1_ON	CBMH2_ON	CONDUIT	105.9	0.2399	0.0130
C672	J78	J83	CONDUIT	190.5	0.0002	0.0130

C673	MH13_Main	MH13_Main_	CONDUIT	74.7	0.4015	0.0130
C674	J102	OF25-	CONDUIT	42.3	6.9030	0.0130
C685	J4	J5	CONDUIT	62.7	0.4560	0.0130
C686	J5	J12	CONDUIT	54.6	2.6223	0.0130
C687	J12	J15	CONDUIT	40.7	5.5862	0.0130
C688	J15	J20	CONDUIT	93.1	1.2852	0.0130
C689	J62	J24	CONDUIT	40.7	0.2749	0.0130
C690	J30	J5	CONDUIT	86.3	1.1007	0.0130
C7	J7	MJ112	CONDUIT	49.1	3.5856	0.0300
C700	MH8_Main	MH9_Main	CONDUIT	27.2	-0.1839	0.0130
C701	MH10_Main	MH11_Main	CONDUIT	69.8	0.6305	0.0130
C702	MH11_Main	OF3-	CONDUIT	7.4	4.5982	0.0130
C703	CBMH2_ON	CBMH3_ON	CONDUIT	90.8	0.2785	0.0130
C704	CBMH4_ON	CBMH5_ON	CONDUIT	27.1	-0.2586	0.0130
C705	CBMH5_ON	CBMH6_ON	CONDUIT	72.7	0.1114	0.0130
C707	CBMH6_ON	CBMH7_ON	CONDUIT	91.7	0.1592	0.0130
C708	CBMH8_ON	CBMH9_ON	CONDUIT	79.3	0.5004	0.0130
C709	J83	OF29-	CONDUIT	45.1	-396.0446	0.0130
C710	J95	J93	CONDUIT	10.7	2.0277	0.0130
C711	J93	J98	CONDUIT	79.8	1.2003	0.0130
C712	J101	J102	CONDUIT	64.9	0.7182	0.0130
C713	J98	J101	CONDUIT	58.9	0.6124	0.0130
C714	MH22	MH23	CONDUIT	57.9	-0.1556	0.0130
C715	MH25-1	MH25	CONDUIT	30.2	0.1987	0.0130
C716	MH9	MH10	CONDUIT	57.5	0.7128	0.0130
C717	MH4	MH8	CONDUIT	38.6	0.4399	0.0130
C718	MH1	MH2	CONDUIT	16.9	0.5316	0.0130
C727	J20	J24	CONDUIT	88.3	1.2954	0.0130
C734	J55	J62	CONDUIT	34.5	0.2264	0.0130
C735	J52	J55	CONDUIT	62.4	0.2034	0.0130
C736	J30	J31	CONDUIT	67.5	0.4398	0.0130
C737	J31	J36	CONDUIT	84.5	6.5747	0.0130
C738	J36	J42	CONDUIT	77.5	1.0928	0.0130
C739	J42	J43	CONDUIT	32.8	0.5860	0.0130
C740	J43	J50	CONDUIT	47.7	0.6264	0.0130
C741	J50	J24	CONDUIT	16.8	0.6248	0.0130
C751	MH7_Main	MH8_Main	CONDUIT	54.4	4.5484	0.0130
C752	MH5_Main	MH6_Main	CONDUIT	90.8	0.5617	0.0130
C753	MH3_Main	MH4_Main	CONDUIT	41.9	0.9067	0.0130
C754	MH1_Main	MH2_Main	CONDUIT	52.8	0.9467	0.0130
C755	MH14_Main	MH15_Main	CONDUIT	42.1	0.1425	0.0130

C756	MH13_Main_	MH14_Main	CONDUIT	18.2	0.1653	0.0130
C757	MH10	MH11	CONDUIT	41.1	0.4136	0.0130
C758	CB26	OF12-	CONDUIT	38.4	0.5024	0.0130
C759	J116	OF8-	CONDUIT	21.4	2.1075	0.0130
C760	J35	J34	CONDUIT	22.3	1.0632	0.0130
C762	J47	J125	CONDUIT	12.5	3.2016	0.0130
C763	J91	OF20-	CONDUIT	10.3	-7.5585	0.0130
C764	CB-58	MH25-1	CONDUIT	69.1	0.2460	0.0130
C765	J113	J110	CONDUIT	25.4	0.3945	0.0130
C766	J110	J101	CONDUIT	60.7	0.0889	0.0130
C767	MH14	MH15	CONDUIT	29.7	0.3700	0.0130
C77	MH_35	MH_36	CONDUIT	19.6	0.3563	0.0130
C8	J8	Rice_Pond	CONDUIT	36.1	2.4884	0.0110
C80	MH_34	MH_35	CONDUIT	63.7	0.5103	0.0130
C94	MH_16	MH_17	CONDUIT	104.8	0.4235	0.0130
CB72	MH41	Gill_RD_Pond	CONDUIT	58.9	0.8999	0.0130
MC_C6	MJ_	MJ64	CONDUIT	21.5	2.1384	0.0130
MC1	MJ1	MJ3	CONDUIT	135.2	0.0577	0.0130
MC10	MJ9	OF2-M-	CONDUIT	124.6	1.2312	0.0130
MC100	MJ81	MJ78	CONDUIT	11.0	0.1455	0.0130
MC101	MJ78	MJ90	CONDUIT	92.0	1.5904	0.0130
MC102	MJ80	MJ73	CONDUIT	32.3	1.1394	0.0130
MC103	MJ80	MJ83	CONDUIT	24.9	0.9719	0.0130
MC104	MJ82	MJ79	CONDUIT	7.9	0.5063	0.0130
MC105	MJ82	MJ74	CONDUIT	56.6	0.0707	0.0130
MC107	MJ84	MJ77	CONDUIT	36.5	9.0478	0.0130
MC108	MJ84	MJ91	CONDUIT	60.6	2.4876	0.0130
MC109	MJ84	MJ76	CONDUIT	61.1	3.1243	0.0130
MC11	MJ10	MJ14	CONDUIT	49.5	4.0700	0.0130
MC12	MJ10	MJ2	CONDUIT	159.9	3.5989	0.0130
MC120	MJ85	MJ74	CONDUIT	66.1	1.8778	0.0130
MC121	MJ85	MJ87	CONDUIT	41.9	1.3629	0.0130
MC122	MJ85	MJ81	CONDUIT	59.8	1.2392	0.0130
MC123	MJ93	MJ85	CONDUIT	57.7	1.8617	0.0130
MC124	MJ86	MJ80	CONDUIT	86.8	1.8805	0.0130
MC125	MJ88	MJ95	CONDUIT	403.1	0.4691	0.0130
MC126	MJ89	MJ83	CONDUIT	36.8	0.7609	0.0130
MC128	MJ91	MJ102	CONDUIT	82.5	1.5456	0.0130
MC129	MJ86	MJ91	CONDUIT	60.8	0.3536	0.0130
MC13	MJ11	MJ13	CONDUIT	28.6	0.4056	0.0130
MC130	MJ91	MJ97	CONDUIT	30.7	5.5591	0.0130

MC131	MJ92	MJ99	CONDUIT	33.3	1.7720	0.0130
MC132	MJ92	MJ122	CONDUIT	287.2	0.5975	0.0130
MC133	MJ92	MJ70	CONDUIT	133.7	2.0221	0.0130
MC135	MJ84	MJ94	CONDUIT	121.6	0.9268	0.0130
MC136	MJ95	MJ112	CONDUIT	81.9	0.6447	0.0130
MC137	MJ103	MJ96	CONDUIT	71.8	0.1267	0.0130
MC139	MJ98	MJ87	CONDUIT	106.9	0.0440	0.0130
MC14	MJ12	MJ3	CONDUIT	167.3	0.9635	0.0130
MC141	MJ101	MJ98	CONDUIT	20.7	1.5606	0.0130
MC142	MJ108	MJ98	CONDUIT	63.1	3.6601	0.0130
MC143	MJ99	MJ104	CONDUIT	59.7	1.9736	0.0130
MC144	MJ99	MJ107	CONDUIT	53.1	2.2812	0.0130
MC145	MJ100	OF9-M	CONDUIT	138.6	2.3246	0.0130
MC146	MJ103	MJ97	CONDUIT	29.3	1.9492	0.0130
MC147	MJ104	MJ116	CONDUIT	142.9	1.5579	0.0130
MC148	MJ115	MJ105	CONDUIT	61.4	1.5490	0.0130
MC149	MJ106	MJ102	CONDUIT	39.2	1.8115	0.0130
MC15	MJ14	MJ30	CONDUIT	22.9	0.5883	0.0130
MC150	MJ107	MJ129	CONDUIT	206.3	1.1586	0.0130
MC151	MJ104	MJ107	CONDUIT	29.0	0.1138	0.0130
MC152	MJ108	MJ93	CONDUIT	150.2	0.4727	0.0130
MC153	MJ108	MJ118	CONDUIT	62.4	1.5515	0.0130
MC154	MJ109	MJ114	CONDUIT	25.0	1.4442	0.0130
MC155	MJ109	MJ103	CONDUIT	37.9	4.9930	0.0130
MC156	MJ110	MJ128	CONDUIT	118.5	0.0262	0.0130
MC157	MJ111	MJ110	CONDUIT	74.0	0.6000	0.0130
MC158	MJ111	MJ112	CONDUIT	58.1	3.3254	0.0130
MC159	MJ112	MJ119	CONDUIT	53.0	0.7963	0.0130
MC16	MJ15	MJ36	CONDUIT	260.4	2.2510	0.0130
MC160	MJ113	MJ102	CONDUIT	59.9	2.2928	0.0130
MC161	MJ113	MJ103	CONDUIT	86.8	1.4183	0.0130
MC162	MJ114	MJ120	CONDUIT	85.2	0.7148	0.0130
MC163	MJ114	MJ101	CONDUIT	125.8	0.6717	0.0130
MC164	MJ117	MJ115	CONDUIT	27.5	0.4255	0.0130
MC165	MJ116	MJ129	CONDUIT	80.1	0.2459	0.0130
MC166	MJ117	MJ131	CONDUIT	101.8	1.2653	0.0130
MC167	MJ117	MJ90	CONDUIT	147.0	2.6315	0.0130
MC168	MJ118	MJ105	CONDUIT	150.7	0.1573	0.0130
MC169	MJ119	OF26-M	CONDUIT	75.5	2.6287	0.0130
MC17	MJ15	MJ7	CONDUIT	93.9	2.0697	0.0130
MC170	MJ113	MJ120	CONDUIT	61.3	0.5073	0.0130

MC171	MJ121	MJ115	CONDUIT	74.5	1.6620	0.0130
MC172	MJ122	MJ100	CONDUIT	133.6	1.4897	0.0130
MC173	MJ123	MJ114	CONDUIT	62.5	4.1716	0.0130
MC174	MJ123	MJ127	CONDUIT	79.9	1.5985	0.0130
MC175	MJ123	MJ130	CONDUIT	62.4	1.7150	0.0130
MC176	MJ123	MJ108	CONDUIT	146.0	1.0035	0.0130
MC177	MJ124	MJ119	CONDUIT	39.3	0.4300	0.0130
MC178	MJ125	MJ118	CONDUIT	59.8	2.3468	0.0130
MC179	MJ126	MJ131	CONDUIT	44.9	2.0049	0.0130
MC18	MJ16	MJ13	CONDUIT	89.0	0.0494	0.0130
MC180	MJ126	MJ122	CONDUIT	88.7	1.0158	0.0130
MC181	MJ127	MJ120	CONDUIT	62.4	3.1057	0.0130
MC182_1	MJ128	MH41_S	CONDUIT	49.8	0.4619	0.0130
MC182_2	MH36_S	MH34_S	CONDUIT	36.1	1.3508	0.0130
MC182_3	MH36_S	MH41_S	CONDUIT	28.8	0.3848	0.0130
MC182_5	MH34_S	MJ124	CONDUIT	33.6	3.2856	0.0130
MC183	MJ129	MJ132	CONDUIT	28.7	0.1324	0.0130
MC184	MJ130	MJ118	CONDUIT	143.9	0.9472	0.0130
MC185	MJ131	MJ135	CONDUIT	67.8	1.4751	0.0130
MC186	MJ131	MJ136	CONDUIT	53.3	1.6663	0.0130
MC187	MJ133	MJ125	CONDUIT	98.4	0.4624	0.0130
MC188	MJ147	MJ134	CONDUIT	173.9	0.9328	0.0130
MC189	MJ136	MJ134	CONDUIT	97.4	2.0292	0.0130
MC19	MJ17	MJ19	CONDUIT	20.2	4.1620	0.0130
MC190	MJ136	MJ148	CONDUIT	187.8	0.1874	0.0130
MC191	MJ137	MJ134	CONDUIT	270.3	0.3862	0.0130
MC192	MJ138	MJ130	CONDUIT	82.2	2.1465	0.0130
MC193	MJ138	MJ143	CONDUIT	110.3	3.3328	0.0130
MC194_1	MH37_S	MJ139	CONDUIT	27.9	1.4505	0.0130
MC194_2	MH37_S	MJ140	CONDUIT	79.1	0.2034	0.0130
MC195	MJ140	MJ128	CONDUIT	131.2	0.0663	0.0130
MC196	MJ149	MH2_S	CONDUIT	23.9	0.2093	0.0130
MC197	MH3_S	MH2_S	CONDUIT	42.6	0.3760	0.0130
MC198	MJ143	MH3_S	CONDUIT	68.5	0.0730	0.0130
MC199	MJ143	MH8_S	CONDUIT	28.8	0.6939	0.0130
MC2	MJ2	MJ1	CONDUIT	43.3	0.6537	0.0130
MC20	MJ25	MJ18	CONDUIT	41.3	0.2322	0.0130
MC200	MH8_S	MH9__S	CONDUIT	41.7	0.5519	0.0130
MC201	MH9__S	MH10__S	CONDUIT	57.2	1.0142	0.0130
MC202	MH10__S	MH11__S	CONDUIT	42.2	0.9005	0.0130
MC203	MJ144	MJ145	CONDUIT	172.1	0.1859	0.0130

MC204	MJ144	MJ124	CONDUIT	199.9	1.2367	0.0130
MC205	MJ145	OF22_M	CONDUIT	55.0	2.5754	0.0130
MC206	MJ147	MH21_S	CONDUIT	67.2	0.3124	0.0130
MC207	MH21_S	MJ146	CONDUIT	140.1	0.3127	0.0130
MC208	MJ148	MJ147	CONDUIT	23.7	0.0084	0.0130
MC209	MJ150	MJ151	CONDUIT	45.7	2.3179	0.0130
MC21	MJ19	OF4-M	CONDUIT	39.7	13.9110	0.0130
MC210	MJ150	MH8_S	CONDUIT	139.7	0.3442	0.0130
MC211	MJ151	OF11-M	CONDUIT	12.4	4.6987	0.0130
MC212	MJ152	MJ148	CONDUIT	288.9	0.2388	0.0130
MC213	MJ153	MJ152	CONDUIT	245.8	0.2522	0.0130
MC214_1	MJ154	J8	CONDUIT	73.9	0.1056	0.0130
MC214_2	J8	MJ153	CONDUIT	72.7	0.1059	0.0130
MC215	MJ155	MJ154	CONDUIT	125.0	0.5648	0.0130
MC216	MJ156	MJ155	CONDUIT	105.8	0.6323	0.0130
MC217	MJ156	MJ154	CONDUIT	187.0	0.7353	0.0130
MC218	MJ157	MJ152	CONDUIT	486.8	0.5156	0.0130
MC219	MJ135	MJ142	CONDUIT	72.7	0.8639	0.0130
MC22	MJ20	MJ32	CONDUIT	77.6	1.7280	0.0130
MC220	MJ135	MH11__S	CONDUIT	42.3	1.1336	0.0130
MC221	MJ53	MJ61	CONDUIT	58.5	2.5772	0.0130
MC223	MJ53	MJ46	CONDUIT	55.3	1.2482	0.0130
MC224	MJ54	MJ37	CONDUIT	94.3	4.0462	0.0130
MC225	MJ68	MJ75	CONDUIT	37.1	3.3579	0.0130
MC226	MJ79	MJ72	CONDUIT	28.7	0.7328	0.0130
MC227	MJ83	MJ72	CONDUIT	90.7	0.0441	0.0130
MC228	MJ89	MJ82	CONDUIT	90.5	0.0774	0.0130
MC229	MJ96	MJ89	CONDUIT	75.8	0.2044	0.0130
MC23	MJ21	MJ13	CONDUIT	131.7	0.2475	0.0130
MC230	MJ98	MJ89	CONDUIT	60.9	0.9969	0.0130
MC231	MJ93	MJ105	CONDUIT	63.5	0.7798	0.0130
MC232	MJ18	MJ26	CONDUIT	61.8	0.7819	0.0130
MC24	MJ22	OF32-M	CONDUIT	84.3	1.7084	0.0130
MC25	MJ23	MJ21	CONDUIT	34.3	0.9826	0.0130
MC26	MJ45	MJ25	CONDUIT	60.8	2.1998	0.0130
MC27	MJ26	OF31-M	CONDUIT	95.3	1.5725	0.0130
MC28	MJ27	OF2-M	CONDUIT	95.8	2.8401	0.0130
MC29	MJ28	MJ32	CONDUIT	40.6	2.8199	0.0130
MC3	MJ3	OF7-M	CONDUIT	20.9	1.2253	0.0130
MC30	MJ28	MJ31	CONDUIT	53.6	3.7550	0.0130
MC31	MJ17	MJ29	CONDUIT	88.9	0.8887	0.0130

MC32	MJ30	MJ31	CONDUIT	78.6	0.3522	0.0130
MC33	MJ31	MJ1	CONDUIT	86.7	4.1641	0.0130
MC34	MJ32	MJ57	CONDUIT	101.0	3.0805	0.0130
MC35	MJ33	MJ29	CONDUIT	32.9	1.9730	0.0130
MC36	MJ33	MJ38	CONDUIT	47.9	0.0397	0.0130
MC37	MJ34	MJ21	CONDUIT	54.9	1.3972	0.0130
MC38	MJ35	MJ27	CONDUIT	41.9	0.7995	0.0130
MC39	MJ36	MJ24	CONDUIT	173.3	0.4963	0.0130
MC4	MJ4	MJ2	CONDUIT	63.0	3.0989	0.0130
MC40	MJ158	MJ44	CONDUIT	40.0	0.2123	0.0130
MC41	MJ37	MJ48	CONDUIT	129.5	1.6902	0.0130
MC42	MJ39	MJ47	CONDUIT	30.9	3.6237	0.0130
MC43	MJ39	MJ29	CONDUIT	79.1	3.6801	0.0130
MC44	MJ40	MJ19	CONDUIT	124.8	1.5467	0.0130
MC45	MJ40	MJ47	CONDUIT	55.7	0.1616	0.0130
MC46	MJ41	MJ25	CONDUIT	69.8	0.0487	0.0130
MC47	MJ42	MJ35	CONDUIT	55.8	0.8961	0.0130
MC48	MJ43	MJ22	CONDUIT	206.3	0.2385	0.0130
MC49	MJ43	MJ67	CONDUIT	226.5	0.2927	0.0130
MC5	MJ5	MJ10	CONDUIT	19.1	0.6550	0.0130
MC50	MJ44	MJ26	CONDUIT	144.4	0.3587	0.0130
MC51	MJ45	MJ26	CONDUIT	67.7	2.8309	0.0130
MC52	MJ45	MJ20	CONDUIT	51.3	2.9504	0.0130
MC53	MJ46	MJ35	CONDUIT	63.7	2.2062	0.0130
MC54	MJ49	MJ47	CONDUIT	23.3	0.3004	0.0130
MC55	MJ49	MJ58	CONDUIT	54.2	0.8875	0.0130
MC56	MJ56	MJ49	CONDUIT	45.8	0.0371	0.0130
MC57	MJ49	MJ38	CONDUIT	67.0	1.8361	0.0130
MC58	MJ50	MJ52	CONDUIT	27.6	0.0435	0.0130
MC59	MJ51	MJ55	CONDUIT	99.2	2.5240	0.0130
MC6	MJ13	OF3-M	CONDUIT	79.6	1.0905	0.0130
MC62	MJ54	MJ61	CONDUIT	36.0	4.7442	0.0130
MC64	MJ55	MJ48	CONDUIT	45.0	4.6316	0.0130
MC65	MJ56	MJ63	CONDUIT	58.9	1.1665	0.0130
MC66	MJ56	MJ34	CONDUIT	146.2	2.2057	0.0130
MC67	MJ56	MJ74	CONDUIT	85.4	0.3126	0.0130
MC68	MJ57	MJ3	CONDUIT	39.4	3.6608	0.0130
MC69	MJ52	MJ58	CONDUIT	38.1	0.4514	0.0130
MC7	MJ7	MJ22	CONDUIT	333.2	0.1279	0.0130
MC70	MJ60	MJ55	CONDUIT	42.2	3.5069	0.0130
MC71	MJ62	MJ69	CONDUIT	71.4	2.2078	0.0130

MC72	MJ62	MJ51	CONDUIT	50.3	5.6551	0.0130
MC73	MJ63	MJ42	CONDUIT	112.4	1.4014	0.0130
MC74	MJ63	MJ64	CONDUIT	18.0	0.3333	0.0130
MC75	MJ72	MJ63	CONDUIT	54.8	0.3832	0.0130
MC76	MJ_	MJ53	CONDUIT	34.0	1.1168	0.0130
MC77	MJ65	MJ73	CONDUIT	28.0	0.4357	0.0130
MC78	MJ65	MJ61	CONDUIT	37.1	4.6736	0.0130
MC79	MJ66	MJ55	CONDUIT	57.6	3.0587	0.0130
MC8	MJ8	MJ36	CONDUIT	243.0	2.6058	0.0130
MC80	MJ67	MJ92	CONDUIT	237.2	0.0105	0.0130
MC82	MJ68	MJ59	CONDUIT	52.0	4.3676	0.0130
MC83	MJ68	MJ59	CONDUIT	83.2	2.7282	0.0130
MC84	MJ69	MJ60	CONDUIT	54.2	4.2252	0.0130
MC85	MJ70	MJ100	CONDUIT	282.1	0.3555	0.0130
MC86	MJ70	OF30-M	CONDUIT	133.3	2.5778	0.0130
MC87	MJ71	MJ48	CONDUIT	114.6	2.2320	0.0130
MC89	MJ73	MJ64	CONDUIT	74.1	0.2483	0.0130
MC9	MJ8	MJ15	CONDUIT	154.2	0.3048	0.0130
MC90	MJ78	MJ75	CONDUIT	16.0	1.0251	0.0130
MC91	MJ75	OF5-M	CONDUIT	38.8	0.2835	0.0130
MC92	MJ76	MJ69	CONDUIT	35.2	4.0943	0.0130
MC93	MJ76	MJ65	CONDUIT	84.9	1.4866	0.0130
MC97	MJ86	MJ76	CONDUIT	59.5	1.0353	0.0130
MC98	MJ77	MJ66	CONDUIT	50.5	4.0925	0.0130
MC99	MJ77	MJ69	CONDUIT	59.5	0.0992	0.0130
MJ-C5	J1	J2	CONDUIT	172.3	0.0754	0.0300
MJ-C6	J2	J3	CONDUIT	167.9	0.7682	0.0300
MJ-C7	J3	J6	CONDUIT	110.4	0.3169	0.0300
MJ-C8	J6	OF27-M	CONDUIT	80.0	2.9621	0.0300
OL5	Gill_RD_Pond	DICBMH42	ORIFICE			
OL1	Rice_Pond	RICE_POND_OUTLET	OUTLET			
OL10	MH3_S	MH3	OUTLET			
OL11	MJ148	CBMH5	OUTLET			
OL12	MJ147	J128	OUTLET			
OL13	MH21_S	MH21	OUTLET			
OL14	MJ146	MH24	OUTLET			
OL15	MH9__S	MH9	OUTLET			
OL16	MJ21	MH9_Main	OUTLET			
OL17	MJ13	MH10_Main	OUTLET			
OL18	MJ151	MH5	OUTLET			
OL19	MJ112	MH30	OUTLET			

OL2	MJ135	MH13	OUTLET
OL20	MH34_S	MH34	OUTLET
OL21	MH37_S	MH37	OUTLET
OL22	MJ56	MH6_Main	OUTLET
OL23	MJ74	MH5_Main	OUTLET
OL24	MJ93	MH3_Main	OUTLET
OL25	MJ105	MH2_Main	OUTLET
OL26	MJ115	MH1_Main	OUTLET
OL27	MJ154	MH_39	OUTLET
OL28	MJ134	J125	OUTLET
OL29	MJ142	CB26	OUTLET
OL3	MH2_S	MH2	OUTLET
OL30	MJ67	CBMH1_ON	OUTLET
OL31	MJ15	J5	OUTLET
OL32	MJ36	J24	OUTLET
OL33	MJ8	J31	OUTLET
OL34	MJ24	J52	OUTLET
OL35	MJ104	J95	OUTLET
OL36	MJ107	J113	OUTLET
OL37	MJ129	J101	OUTLET
OL38	MJ132	J102	OUTLET
OL39	MJ92	CBMH5_ON	OUTLET
OL4	MJ143	MH4	OUTLET
OL40	MJ122	CBMH8_ON	OUTLET
OL41	MJ126	CBMH9_ON	OUTLET
OL42	MJ145	CB-58	OUTLET
OL43	MJ144	MH26	OUTLET
OL44	MJ156	MH_15	OUTLET
OL45	MJ155	MH_37	OUTLET
OL46	MJ153	MH_65	OUTLET
OL47	MJ73	MH13_Main	OUTLET
OL48	MJ63	MH14_Main	OUTLET
OL49	MJ64	MH13_Main_	OUTLET
OL50	MJ140	MH39	OUTLET
OL51	MJ128	MH40	OUTLET
OL52	MJ110	MH32	OUTLET
OL53	MJ3	J70	OUTLET
OL6	MJ131	CBMH2	OUTLET
OL7	MJ152	MH_56	OUTLET
OL8	MH10__S	MH10	OUTLET
OL9	MH11__S	MH11	OUTLET

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C_dummy	TRIANGULAR	1.00	0.50	0.22	1.00	1	8.34
C1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.30
C100	CIRCULAR	0.82	0.53	0.21	0.82	1	0.70
C106	CIRCULAR	0.68	0.36	0.17	0.68	1	0.61
C108	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C110	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C111	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C113	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C114	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C115	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C116	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C118	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C119_1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.25
C119_2	CIRCULAR	0.82	0.53	0.21	0.82	1	0.78
C123	CIRCULAR	0.45	0.16	0.11	0.45	1	0.17
C124	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C125	CIRCULAR	0.90	0.64	0.23	0.90	1	1.50
C126	CIRCULAR	0.90	0.64	0.23	0.90	1	1.08
C127	CIRCULAR	0.53	0.22	0.13	0.53	1	0.40
C128	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C129	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C130	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C145	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C147	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C150	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C151	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C156	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C159	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C160	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C161	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C164	CIRCULAR	0.45	0.16	0.11	0.45	1	0.71
C165	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C167	CIRCULAR	0.53	0.22	0.13	0.53	1	0.24

C185	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C186	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C187	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C188	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C189	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C190	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C193	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C194	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C2	CIRCULAR	0.68	0.36	0.17	0.68	1	0.50
C200-	CIRCULAR	0.60	0.28	0.15	0.60	1	0.48
C205	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C206	CIRCULAR	0.45	0.16	0.11	0.45	1	0.14
C207	CIRCULAR	0.45	0.16	0.11	0.45	1	0.15
C211	CIRCULAR	0.82	0.53	0.21	0.82	1	5.14
C212	CIRCULAR	0.82	0.53	0.21	0.82	1	0.63
C213	CIRCULAR	0.82	0.53	0.21	0.82	1	0.62
C228	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C229	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C230	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C231	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C232	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C233	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C234	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C235	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C239	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C240	CIRCULAR	0.30	0.07	0.07	0.30	1	0.16
C244	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C245	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C246	CIRCULAR	0.53	0.22	0.13	0.53	1	0.69
C248	CIRCULAR	0.75	0.44	0.19	0.75	1	0.71
C250	CIRCULAR	0.30	0.07	0.07	0.30	1	0.31
C251	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C252	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C253	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C254	CIRCULAR	0.30	0.07	0.07	0.30	1	0.26
C255	CIRCULAR	0.30	0.07	0.07	0.30	1	0.30
C256	CIRCULAR	0.38	0.11	0.09	0.38	1	0.20
C257	CIRCULAR	0.30	0.07	0.07	0.30	1	0.18
C258	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C259	CIRCULAR	0.30	0.07	0.07	0.30	1	0.15
C26	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21

C260	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C263	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C269	CIRCULAR	0.38	0.11	0.09	0.38	1	0.31
C27	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C28	CIRCULAR	0.60	0.28	0.15	0.60	1	0.49
C281	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C284	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C285	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C288	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C289	CIRCULAR	0.45	0.16	0.11	0.45	1	0.25
C292	CIRCULAR	0.45	0.16	0.11	0.45	1	0.19
C293	CIRCULAR	0.45	0.16	0.11	0.45	1	0.28
C3	CIRCULAR	0.60	0.28	0.15	0.60	1	0.51
C343	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C344	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C345	CIRCULAR	0.53	0.22	0.13	0.53	1	0.21
C346	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C347	CIRCULAR	0.60	0.28	0.15	0.60	1	1.37
C348	CIRCULAR	0.45	0.16	0.11	0.45	1	0.10
C349	CIRCULAR	0.40	0.13	0.10	0.40	1	0.39
C350	CIRCULAR	0.40	0.13	0.10	0.40	1	0.12
C351	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C352	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C353	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C4	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C437	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C48	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C5	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	13.42
C50	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C53	CIRCULAR	0.60	0.28	0.15	0.60	1	0.55
C54	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C6	TRIANGULAR	1.00	1.20	0.38	2.40	1	1.23
C653	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C655	CIRCULAR	0.60	0.28	0.15	0.60	1	0.34
C656	CIRCULAR	0.60	0.28	0.15	0.60	1	0.23
C657	CIRCULAR	0.68	0.36	0.17	0.68	1	0.78
C658	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C660	CIRCULAR	0.45	0.16	0.11	0.45	1	0.22
C662	CIRCULAR	0.45	0.16	0.11	0.45	1	0.03
C663	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C664	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09

C665	CIRCULAR	0.30	0.07	0.07	0.30	1	0.27
C666	CIRCULAR	0.75	0.44	0.19	0.75	1	0.90
C667	CIRCULAR	0.60	0.28	0.15	0.60	1	0.39
C668	CIRCULAR	0.75	0.44	0.19	0.75	1	6.27
C669	CIRCULAR	0.82	0.53	0.21	0.82	1	3.64
C670	CIRCULAR	0.60	0.28	0.15	0.60	1	0.37
C671	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C672	CIRCULAR	0.30	0.07	0.07	0.30	1	0.00
C673	CIRCULAR	0.45	0.16	0.11	0.45	1	0.18
C674	CIRCULAR	0.25	0.05	0.06	0.25	1	0.16
C685	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C686	CIRCULAR	0.38	0.11	0.09	0.38	1	0.28
C687	CIRCULAR	0.38	0.11	0.09	0.38	1	0.41
C688	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C689	CIRCULAR	0.68	0.36	0.17	0.68	1	0.44
C690	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C7	CIRCULAR	1.00	0.79	0.25	1.00	1	1.97
C700	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C701	CIRCULAR	0.45	0.16	0.11	0.45	1	0.23
C702	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C703	CIRCULAR	0.47	0.18	0.12	0.47	1	0.17
C704	CIRCULAR	0.60	0.28	0.15	0.60	1	0.31
C705	CIRCULAR	0.60	0.28	0.15	0.60	1	0.20
C707	CIRCULAR	0.60	0.28	0.15	0.60	1	0.25
C708	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C709	CIRCULAR	0.30	0.07	0.07	0.30	1	1.92
C710	CIRCULAR	0.25	0.05	0.06	0.25	1	0.08
C711	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C712	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C713	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C714	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C715	CIRCULAR	0.60	0.28	0.15	0.60	1	0.27
C716	CIRCULAR	0.60	0.28	0.15	0.60	1	0.52
C717	CIRCULAR	0.60	0.28	0.15	0.60	1	0.41
C718	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C727	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C734	CIRCULAR	0.68	0.36	0.17	0.68	1	0.40
C735	CIRCULAR	0.68	0.36	0.17	0.68	1	0.38
C736	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C737	CIRCULAR	0.38	0.11	0.09	0.38	1	0.45
C738	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18

C739	CIRCULAR	0.53	0.22	0.13	0.53	1	0.33
C740	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C741	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C751	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C752	CIRCULAR	0.35	0.10	0.09	0.35	1	0.11
C753	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C754	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C755	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C756	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C757	CIRCULAR	0.75	0.44	0.19	0.75	1	0.72
C758	CIRCULAR	0.68	0.36	0.17	0.68	1	0.60
C759	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C760	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C762	CIRCULAR	0.30	0.07	0.07	0.30	1	0.17
C763	CIRCULAR	0.45	0.16	0.11	0.45	1	0.78
C764	CIRCULAR	0.60	0.28	0.15	0.60	1	0.30
C765	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C766	CIRCULAR	0.25	0.05	0.06	0.25	1	0.02
C767	CIRCULAR	0.75	0.44	0.19	0.75	1	0.68
C77	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	8.04
C80	CIRCULAR	0.45	0.16	0.11	0.45	1	0.20
C94	CIRCULAR	0.60	0.28	0.15	0.60	1	0.40
CB72	CIRCULAR	0.53	0.22	0.13	0.53	1	0.41
MC_C6	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	140.85
MC1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	23.13
MC10	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.88
MC100	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	36.73
MC101	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.47
MC102	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	102.81
MC103	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.96
MC104	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.54
MC105	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	25.61
MC107	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	289.72
MC108	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	151.91
MC109	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	170.25
MC11	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.32
MC12	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	182.72
MC120	Main_Street	0.35	4.72	0.25	23.30	1	19.72
MC121	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	112.45
MC122	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.22

MC123	Main_Street	0.35	4.72	0.25	23.30	1	19.63
MC124	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	132.08
MC125	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.97
MC126	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	84.02
MC128	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.75
MC129	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.28
MC13	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	61.34
MC130	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	227.10
MC131	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	22.98
MC132	Ontario_Street	0.30	3.89	0.21	19.00	1	8.23
MC133	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	136.97
MC135	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	92.73
MC136	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.34
MC137	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	34.29
MC139	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.20
MC14	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.54
MC141	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.32
MC142	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.27
MC143	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.25
MC144	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.07
MC145	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.32
MC146	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	134.47
MC147	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.22
MC148	Main_Street	0.35	4.72	0.25	23.30	1	17.91
MC149	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	129.64
MC15	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	73.88
MC150	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	103.67
MC151	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	32.49
MC152	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	66.22
MC153	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.97
MC154	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	115.75
MC155	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	215.22
MC156	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	15.58
MC157	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	74.61
MC158	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.64
MC159	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.95
MC16	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	144.51
MC160	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	145.84
MC161	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.71
MC162	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	81.43
MC163	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.94

MC164	Main_Street	0.35	4.72	0.25	23.30	1	9.38
MC165	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.56
MC166	Main_Street	0.35	4.72	0.25	23.30	1	16.18
MC167	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.25
MC168	Main_Street	0.35	4.72	0.25	23.30	1	5.71
MC169	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.16
MC17	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	138.57
MC170	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.61
MC171	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	124.17
MC172	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	21.07
MC173	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.73
MC174	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.78
MC175	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.14
MC176	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.49
MC177	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.16
MC178	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	147.55
MC179	Ontario_Street	0.30	3.89	0.21	19.00	1	15.08
MC18	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.42
MC180	Ontario_Street	0.30	3.89	0.21	19.00	1	10.74
MC181	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.74
MC182_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.46
MC182_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	111.95
MC182_3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.75
MC182_5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	174.59
MC183	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	35.05
MC184	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.74
MC185	Ontario_Street	0.30	3.89	0.21	19.00	1	12.94
MC186	Main_Street	0.35	4.72	0.25	23.30	1	18.57
MC187	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.50
MC188	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.02
MC189	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.59
MC19	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.50
MC190	Ontario_Street	0.30	3.89	0.21	19.00	1	4.61
MC191	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.86
MC192	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	141.11
MC193	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.84
MC194_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	116.00
MC194_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.44
MC195	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	24.80
MC196	Ontario_Street	0.30	3.89	0.21	19.00	1	4.87
MC197	Ontario_Street	0.30	3.89	0.21	19.00	1	6.53

MC198	Ontario_Street	0.30	3.89	0.21	19.00	1	2.88
MC199	Ontario_Street	0.30	3.89	0.21	19.00	1	8.87
MC2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.88
MC20	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	46.41
MC200	Ontario_Street	0.30	3.89	0.21	19.00	1	7.91
MC201	Ontario_Street	0.30	3.89	0.21	19.00	1	10.73
MC202	Ontario_Street	0.30	3.89	0.21	19.00	1	10.11
MC203	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	41.53
MC204	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.11
MC205	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.57
MC206	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.84
MC207	Gill_Rd	0.30	4.92	0.20	24.00	1	7.28
MC208	Gill_Rd	0.30	4.92	0.20	24.00	1	1.20
MC209	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	146.64
MC21	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	359.24
MC210	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	56.51
MC211	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.79
MC212	Main_Street	0.35	4.72	0.25	23.30	1	7.03
MC213	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.37
MC214_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.30
MC214_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.34
MC215	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	72.39
MC216	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	76.59
MC217	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.59
MC218	Main_Street	0.35	4.72	0.25	23.30	1	10.33
MC219	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	89.52
MC22	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.62
MC220	Ontario_Street	0.30	3.89	0.21	19.00	1	11.34
MC221	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.63
MC223	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	19.28
MC224	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	193.75
MC225	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	176.50
MC226	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.45
MC227	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.22
MC228	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	26.79
MC229	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.54
MC23	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.59
MC230	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.17
MC231	Main_Street	0.35	4.72	0.25	23.30	1	12.71
MC232	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.17
MC24	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.90

MC25	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	95.47
MC26	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	142.86
MC27	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.78
MC28	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.32
MC29	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	161.74
MC3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.62
MC30	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	186.64
MC31	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.80
MC32	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.16
MC33	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.55
MC34	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.05
MC35	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	135.29
MC36	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	19.18
MC37	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	20.40
MC38	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	86.13
MC39	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	67.85
MC4	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.56
MC40	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	44.38
MC41	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.22
MC42	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	183.35
MC43	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.77
MC44	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.79
MC45	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	38.72
MC46	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.25
MC47	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	91.18
MC48	Ontario_Street	0.30	3.89	0.21	19.00	1	5.20
MC49	Ontario_Street	0.30	3.89	0.21	19.00	1	5.76
MC5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.95
MC50	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.69
MC51	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.06
MC52	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	165.44
MC53	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.06
MC54	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	52.79
MC55	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.74
MC56	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	18.56
MC57	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	130.52
MC58	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.08
MC59	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	153.02
MC6	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	18.02
MC62	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	209.79
MC64	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	207.29

MC65	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	104.03
MC66	Main_Street	0.35	4.72	0.25	23.30	1	21.37
MC67	Main_Street	0.35	4.72	0.25	23.30	1	8.05
MC68	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.29
MC69	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	64.72
MC7	Ontario_Street	0.30	3.89	0.21	19.00	1	3.81
MC70	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	180.37
MC71	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.12
MC72	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	229.05
MC73	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.02
MC74	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	55.61
MC75	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.63
MC76	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	101.79
MC77	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.58
MC78	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.23
MC79	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	168.45
MC8	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	155.48
MC80	Ontario_Street	0.30	3.89	0.21	19.00	1	1.09
MC82	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	201.29
MC83	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	159.09
MC84	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	197.98
MC85	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.43
MC86	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	27.71
MC87	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.90
MC89	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.00
MC9	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.18
MC90	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	97.52
MC91	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	51.29
MC92	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.90
MC93	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	117.44
MC97	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	98.01
MC98	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.85
MC99	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	30.33
MJ-C5	TRIANGULAR	0.50	0.60	0.23	2.40	1	0.21
MJ-C6	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	7.81
MJ-C7	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.05
MJ-C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	3.22

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Transect Summary
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Transect Gill_Rd
Area:

0.0010	0.0039	0.0088	0.0156	0.0244
0.0351	0.0478	0.0624	0.0790	0.0976
0.1171	0.1366	0.1561	0.1756	0.1951
0.2146	0.2341	0.2537	0.2732	0.2927
0.3122	0.3317	0.3512	0.3707	0.3902
0.4100	0.4300	0.4505	0.4714	0.4927
0.5143	0.5364	0.5588	0.5817	0.6049
0.6285	0.6525	0.6769	0.7017	0.7268
0.7524	0.7783	0.8047	0.8314	0.8585
0.8860	0.9140	0.9422	0.9709	1.0000

Hrad:

0.0147	0.0294	0.0441	0.0588	0.0736
0.0883	0.1030	0.1177	0.1324	0.1471
0.1764	0.2056	0.2348	0.2640	0.2931
0.3222	0.3512	0.3802	0.4091	0.4380
0.4669	0.4957	0.5245	0.5532	0.5819
0.5995	0.6170	0.6344	0.6517	0.6689
0.6861	0.7031	0.7201	0.7370	0.7539
0.7706	0.7873	0.8040	0.8206	0.8371
0.8536	0.8700	0.8864	0.9028	0.9191
0.9353	0.9516	0.9677	0.9839	1.0000

Width:

0.0667	0.1333	0.2000	0.2667	0.3333
0.4000	0.4667	0.5333	0.6000	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6800	0.6933	0.7067	0.7200	0.7333
0.7467	0.7600	0.7733	0.7867	0.8000
0.8133	0.8267	0.8400	0.8533	0.8667
0.8800	0.8933	0.9067	0.9200	0.9333
0.9467	0.9600	0.9733	0.9867	1.0000

Transect Local_Curb_Simp
Area:

0.0011	0.0043	0.0097	0.0171	0.0261

```
            0.0367     0.0489     0.0624     0.0759     0.0894
            0.1030     0.1165     0.1300     0.1436     0.1576
            0.1722     0.1874     0.2031     0.2194     0.2362
            0.2536     0.2716     0.2901     0.3092     0.3288
            0.3489     0.3697     0.3910     0.4128     0.4352
            0.4582     0.4817     0.5057     0.5304     0.5555
            0.5813     0.6076     0.6344     0.6618     0.6898
            0.7183     0.7474     0.7770     0.8072     0.8379
            0.8692     0.9011     0.9335     0.9665     1.0000
Hrad:
            0.0193     0.0385     0.0578     0.0802     0.1019
            0.1227     0.1431     0.1756     0.2132     0.2506
            0.2878     0.3248     0.3617     0.3985     0.4340
            0.4674     0.4989     0.5286     0.5567     0.5832
            0.6083     0.6320     0.6545     0.6758     0.6961
            0.7153     0.7336     0.7511     0.7678     0.7837
            0.7989     0.8135     0.8274     0.8408     0.8536
            0.8660     0.8778     0.8893     0.9003     0.9109
            0.9211     0.9310     0.9406     0.9499     0.9589
            0.9676     0.9761     0.9843     0.9922     1.0000
Width:
            0.0640     0.1280     0.1920     0.2420     0.2900
            0.3380     0.3860     0.4000     0.4000     0.4000
            0.4000     0.4000     0.4000     0.4075     0.4240
            0.4405     0.4569     0.4734     0.4898     0.5063
            0.5227     0.5392     0.5557     0.5721     0.5886
            0.6050     0.6215     0.6379     0.6544     0.6709
            0.6873     0.7038     0.7202     0.7367     0.7531
            0.7696     0.7861     0.8025     0.8190     0.8354
            0.8519     0.8683     0.8848     0.9013     0.9177
            0.9342     0.9506     0.9671     0.9835     1.0000

Transect Local_NoCurb_Simp
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
```

```
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000

Transect Main_Street
Area:
            0.0011     0.0042     0.0095     0.0170     0.0265
            0.0382     0.0519     0.0678     0.0850     0.1029
            0.1208     0.1387     0.1566     0.1745     0.1924
            0.2103     0.2282     0.2461     0.2640     0.2819
            0.2998     0.3177     0.3356     0.3535     0.3714
            0.3893     0.4072     0.4251     0.4430     0.4614
            0.4806     0.5006     0.5215     0.5431     0.5656
            0.5889     0.6130     0.6379     0.6636     0.6901
            0.7174     0.7456     0.7746     0.8043     0.8349
            0.8663     0.8985     0.9315     0.9654     1.0000
Hrad:
            0.0142     0.0284     0.0425     0.0567     0.0709
            0.0851     0.0992     0.1151     0.1357     0.1625
```

```
            0.1906     0.2186     0.2465     0.2743     0.3021
            0.3298     0.3575     0.3851     0.4126     0.4400
            0.4674     0.4948     0.5220     0.5492     0.5764
            0.6034     0.6304     0.6574     0.6844     0.7109
            0.7357     0.7589     0.7807     0.8010     0.8200
            0.8378     0.8545     0.8701     0.8848     0.8985
            0.9115     0.9236     0.9351     0.9459     0.9561
            0.9658     0.9750     0.9837     0.9921     1.0000
Width:
            0.0605     0.1210     0.1814     0.2419     0.3024
            0.3629     0.4233     0.4761     0.5061     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5137     0.5368
            0.5600     0.5831     0.6063     0.6295     0.6526
            0.6758     0.6989     0.7221     0.7453     0.7684
            0.7916     0.8147     0.8379     0.8610     0.8842
            0.9074     0.9305     0.9537     0.9768     1.0000

Transect Ontario_Street
Area:
            0.0007     0.0028     0.0063     0.0113     0.0176
            0.0254     0.0345     0.0451     0.0570     0.0704
            0.0852     0.1014     0.1190     0.1380     0.1584
            0.1796     0.2007     0.2218     0.2429     0.2641
            0.2852     0.3063     0.3274     0.3486     0.3697
            0.3910     0.4126     0.4345     0.4568     0.4794
            0.5023     0.5256     0.5492     0.5731     0.5973
            0.6219     0.6467     0.6720     0.6975     0.7234
            0.7496     0.7761     0.8029     0.8301     0.8576
            0.8854     0.9136     0.9421     0.9709     1.0000
Hrad:
            0.0139     0.0278     0.0417     0.0556     0.0695
            0.0834     0.0973     0.1111     0.1250     0.1389
            0.1528     0.1667     0.1806     0.1945     0.2084
            0.2360     0.2635     0.2910     0.3184     0.3458
            0.3732     0.4005     0.4277     0.4549     0.4821
            0.5093     0.5359     0.5619     0.5873     0.6120
            0.6362     0.6598     0.6828     0.7053     0.7272
            0.7486     0.7695     0.7899     0.8098     0.8292
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            0.8482     0.8667     0.8848     0.9024     0.9197
            0.9365     0.9529     0.9690     0.9847     1.0000
Width:
            0.0481     0.0961     0.1442     0.1923     0.2404
            0.2884     0.3365     0.3846     0.4326     0.4807
            0.5288     0.5768     0.6249     0.6730     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7322     0.7434     0.7545     0.7657     0.7768
            0.7880     0.7992     0.8103     0.8215     0.8326
            0.8438     0.8549     0.8661     0.8773     0.8884
            0.8996     0.9107     0.9219     0.9331     0.9442
            0.9554     0.9665     0.9777     0.9888     1.0000

Transect Transect1
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
```

```
            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000


***********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
***********************************************************

****************
Analysis Options
****************
Flow Units ............... CMS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 03/28/2023 00:00:00
Ending Date .............. 03/29/2023 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:10:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 5.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 8
Head Tolerance ........... 0.001500 m
```

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	53.934	60.512
Evaporation Loss	0.000	0.000
Infiltration Loss	36.558	41.016
Surface Runoff	17.110	19.197
Final Storage	0.382	0.429
Continuity Error (%)	-0.215	

Flow Routing Continuity	Volume hectare-m	Volume 10^6 ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	17.102	171.021
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	16.064	160.645
Flooding Loss	0.196	1.964
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.156	1.557
Final Stored Volume	1.033	10.335
Continuity Error (%)	-0.212	

****
Highest Continuity Errors
****
Node MJ105 (36.50%)
Node MJ52 (33.59%)
Node CBMH4_ON (27.73%)
Node MJ118 (27.04%)
Node MJ124 (15.78%)

****

```
  Time-Step Critical Elements
  ***************************
  Link C_dummy (88.71%)
  Link C668 (2.17%)
  Link C702 (1.90%)


  *******************************
  Highest Flow Instability Indexes
  *******************************
  Link OL5 (27)
  Link C211 (26)
  Link OL38 (10)
  Link C674 (10)
  Link C713 (9)


  ************************
  Routing Time Step Summary
  ************************
  Minimum Time Step           :     0.50 sec
  Average Time Step           :     1.80 sec
  Maximum Time Step           :     5.00 sec
  Percent in Steady State     :    -0.00
  Average Iterations per Step :     3.28
  Percent Not Converging      :    20.12
  Time Step Frequencies       :
      5.000 -  3.155 sec      :    10.27 %
      3.155 -  1.991 sec      :    18.27 %
      1.991 -  1.256 sec      :    41.07 %
      1.256 -  0.792 sec      :    16.00 %
      0.792 -  0.500 sec      :    14.39 %


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------------------------
-------------
                             Total      Total      Total      Total     Imperv       Perv      Total       Total
Peak  Runoff
```

Subcatchment	Precip mm	Runon mm	Evap mm	Infil mm	Runoff mm	Runoff mm	Runoff mm	Runoff 10^6 ltr	Runoff CMS	Coeff
Rural_1	60.51	0.00	0.00	35.02	23.64	1.35	24.99	1.73	1.08	0.413
Rural_10	60.51	0.00	0.00	35.31	23.65	1.04	24.69	8.23	5.03	0.408
Rural_11	60.51	0.00	0.00	34.31	23.61	2.14	25.75	0.12	0.08	0.426
Rural_12	60.51	0.00	0.00	35.31	23.65	1.04	24.69	5.49	3.35	0.408
Rural_13	60.51	0.00	0.00	35.31	23.65	1.04	24.69	5.59	3.41	0.408
Rural_14	60.51	0.00	0.00	35.31	23.65	1.04	24.69	4.20	2.57	0.408
Rural_15	60.51	0.00	0.00	35.31	23.65	1.04	24.69	4.77	2.91	0.408
Rural_16	60.51	0.00	0.00	35.31	23.65	1.04	24.69	6.51	3.97	0.408
Rural_16-2_1	60.51	0.00	0.00	35.02	23.64	1.35	24.99	1.54	0.96	0.413
Rural_16-2_2	60.51	0.00	0.00	35.02	23.64	1.35	24.99	1.85	1.15	0.413
Rural_17	60.51	0.00	0.00	34.31	23.61	2.14	25.75	0.71	0.46	0.426
Rural_17_1	60.51	0.00	0.00	34.31	23.61	2.14	25.75	0.73	0.47	0.426
Rural_17_2	60.51	0.00	0.00	35.31	23.65	1.04	24.69	3.75	2.29	0.408
Rural_17_4	60.51	0.00	0.00	55.14	4.13	1.18	5.31	0.72	0.41	0.088
Rural_18	60.51	0.00	0.00	58.96	0.00	1.61	1.61	0.17	0.09	0.027
Rural_19	60.51	0.00	0.00	59.35	0.00	1.20	1.20	0.68	0.34	0.020
Rural_2	60.51	0.00	0.00	35.02	23.64	1.35	24.99	4.83	3.01	0.413
Rural_20	60.51	0.00	0.00	58.96	0.00	1.61	1.61	0.39	0.21	0.027
Rural_21	60.51	0.00	0.00	59.35	0.00	1.20	1.20	1.16	0.59	0.020

Rural_22	60.51	0.00	0.00	55.14	4.13	1.18	5.31	2.23
1.28	0.088							
Rural_23	60.51	0.00	0.00	49.72	9.45	1.15	10.60	5.48
3.33	0.175							
Rural_24	60.51	0.00	0.00	34.89	23.02	2.16	25.18	1.93
1.24	0.416							
Rural_25	60.51	0.00	0.00	52.13	7.08	1.16	8.24	3.29
1.97	0.136							
Rural_26	60.51	0.00	0.00	59.35	0.00	1.20	1.20	0.39
0.19	0.020							
Rural_27	60.51	0.00	0.00	35.02	23.64	1.35	24.99	2.25
1.40	0.413							
Rural_29	60.51	0.00	0.00	35.31	23.65	1.04	24.69	4.21
2.57	0.408							
Rural_3	60.51	0.00	0.00	35.02	23.64	1.35	24.99	1.82
1.13	0.413							
Rural_4	60.51	0.00	0.00	35.31	23.65	1.04	24.69	6.69
4.09	0.408							
Rural_5	60.51	0.00	0.00	35.02	23.64	1.35	24.99	2.81
1.75	0.413							
Rural_6	60.51	0.00	0.00	35.02	23.64	1.35	24.99	3.45
2.15	0.413							
Rural_7	60.51	0.00	0.00	35.31	23.65	1.04	24.69	4.27
2.61	0.408							
Rural_8	60.51	0.00	0.00	35.31	23.65	1.04	24.69	3.15
1.92	0.408							
Rural_9	60.51	0.00	0.00	35.31	23.65	1.04	24.69	5.58
3.41	0.408							
UC1	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.42
0.21	0.528							
UC10	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.12
0.07	0.731							
UC100	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC11	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.55
0.35	0.731							
UC111	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.02	0.731							
UC112	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.31
0.20	0.731							
UC113	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.26
0.16	0.731							
UC114	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08
0.05	0.731							

UC115	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.08
0.04	0.528							
UC116	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.25
0.16	0.731							
UC117	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11	0.731							
UC118	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.09
0.06	0.731							
UC119	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.14
0.09	0.731							
UC12	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.40
0.25	0.731							
UC120	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.63
0.40	0.731							
UC121	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.10
0.05	0.557							
UC122	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.13
0.08	0.731							
UC123	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC124	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.11
0.07	0.731							
UC125	60.51	0.00	0.00	28.86	14.78	16.59	31.37	0.10
0.04	0.518							
UC126	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.02	0.731							
UC127	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.11	0.731							
UC128	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01
0.01	0.731							
UC129	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							
UC13	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.49
0.31	0.731							
UC130	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.06
0.03	0.557							
UC131	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC132	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC133	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.08
0.04	0.528							
UC134	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							

UC135	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.11
0.06	0.528							
UC136	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01
0.01	0.731							
UC137	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.05
0.03	0.557							
UC138	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.07
0.03	0.557							
UC139	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.02
0.01	0.557							
UC14	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20
0.13	0.731							
UC140	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.04
0.02	0.557							
UC141	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.09
0.05	0.557							
UC142	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.04
0.02	0.557							
UC143	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.20
0.10	0.557							
UC144	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.12
0.06	0.557							
UC145	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.13
0.07	0.557							
UC146	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.15
0.08	0.557							
UC147	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.05
0.03	0.557							
UC148	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.06
0.03	0.557							
UC149	60.51	0.00	0.00	26.60	14.75	18.97	33.73	0.10
0.05	0.557							
UC15	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731							
UC150	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.20
0.10	0.528							
UC151	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.07	0.731							
UC152	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC153	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.21
0.13	0.731							
UC154	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.29
0.18	0.731							

UC155	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08
0.05	0.731							
UC156	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.24
0.15	0.731							
UC157	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20
0.13	0.731							
UC158	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.19
0.08	0.439							
UC159	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC16	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.22
0.14	0.731							
UC160	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.85
0.54	0.731							
UC161	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.26
0.10	0.439							
UC162	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16
0.10	0.731							
UC163	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC164	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15
0.10	0.731							
UC165	60.51	0.00	0.00	22.91	20.66	16.60	37.26	1.11
0.63	0.616							
UC166	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.14
0.05	0.439							
UC167	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.27
0.17	0.731							
UC168	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC169	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.77
0.48	0.731							
UC17	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.36
0.23	0.731							
UC170	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.40
0.16	0.439							
UC171	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.53
0.34	0.731							
UC172	60.51	0.00	0.00	30.32	8.85	21.30	30.15	0.61
0.28	0.498							
UC173	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.96
0.61	0.731							
UC174	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.69
0.43	0.731							

UC175	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC176	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731							
UC177	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.36
0.23	0.731							
UC178	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.35
0.22	0.731							
UC179	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.19
0.12	0.731							
UC18	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.30
0.19	0.731							
UC180	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.42
0.89	0.731							
UC181	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.34
0.21	0.731							
UC182	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.49
0.31	0.731							
UC183	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.03
0.65	0.731							
UC184	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC185	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.05
0.03	0.731							
UC186	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							
UC187	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC188	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.55
0.35	0.731							
UC189	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.79
0.50	0.731							
UC19	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.33
0.21	0.731							
UC190	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11	0.731							
UC191	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.02	0.731							
UC192	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.05
0.66	0.731							
UC193	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.28
0.18	0.731							
UC194	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.76
0.48	0.731							

UC195	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.50
0.32 0.731								
UC196	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.27
0.17 0.731								
UC197	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.34
0.21 0.731								
UC198	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.34
0.21 0.731								
UC199	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06 0.731								
UC2	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.30
0.19 0.731								
UC20	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.40
0.25 0.731								
UC200	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.11 0.731								
UC201	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.46
0.29 0.731								
UC202	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.39
0.24 0.731								
UC203	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.29
0.18 0.731								
UC204	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.35
0.22 0.731								
UC205	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11 0.731								
UC206	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.00
0.63 0.731								
UC207	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.43
0.27 0.731								
UC208	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.25
0.16 0.731								
UC209	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11 0.731								
UC21	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.12 0.731								
UC210	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.68
0.43 0.731								
UC211	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.23
0.78 0.731								
UC212	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.24
0.78 0.731								
UC213	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.97
1.24 0.731								

UC214	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.27
0.17	0.731							
UC215	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.56
0.35	0.731							
UC216	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.88
0.55	0.731							
UC217	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.87
0.54	0.731							
UC218	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.53
0.33	0.731							
UC219	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC22	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17
0.11	0.731							
UC220	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01
0.01	0.731							
UC221	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC222	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.14
0.09	0.731							
UC223	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.12
0.07	0.731							
UC224	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16
0.10	0.731							
UC225	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.32
0.20	0.731							
UC226	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.44
0.17	0.439							
UC227	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.91
0.36	0.439							
UC228	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.45
0.17	0.439							
UC229	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01
0.01	0.731							
UC23	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15
0.09	0.731							
UC24	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15
0.10	0.731							
UC25	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.14
0.09	0.731							
UC26	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08
0.05	0.731							
UC27	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							

UC28	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06 0.731								
UC29	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.11
0.07 0.731								
UC3	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.05 0.731								
UC30	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.02
0.01 0.528								
UC300	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.67
0.42 0.731								
UC301	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.93
1.21 0.731								
UC302	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.21
0.13 0.731								
UC303	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.25
0.15 0.731								
UC304	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.95
0.59 0.731								
UC305	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.95
0.60 0.731								
UC306	60.51	0.00	0.00	34.09	2.95	23.60	26.55	0.18
0.07 0.439								
UC307	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.22
0.14 0.731								
UC308	60.51	0.00	0.00	16.74	32.51	10.55	43.05	1.18
0.59 0.711								
UC309	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20
0.13 0.731								
UC31	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.11
0.05 0.528								
UC310	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.32
0.20 0.731								
UC311	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.98
1.25 0.731								
UC312	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.74
0.46 0.731								
UC313	60.51	0.00	0.00	22.91	20.66	16.60	37.26	2.65
1.50 0.616								
UC314	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.07 0.731								
UC315	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.42
0.26 0.731								
UC316	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.29
0.18 0.731								

UC317	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.26
0.16	0.731							
UC318	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.20
0.10	0.528							
UC319	60.51	0.00	0.00	15.66	32.49	11.74	44.23	1.04
0.65	0.731							
UC32	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.04
0.02	0.528							
UC33	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.26
0.13	0.528							
UC34	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.20
0.10	0.528							
UC35	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.02	0.731							
UC36	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							
UC37	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.03
0.02	0.528							
UC38	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.13
0.06	0.528							
UC39	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC4	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.11	0.731							
UC40	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.03	0.731							
UC41	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							
UC42	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.03	0.731							
UC43	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC44	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC45	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.05	0.731							
UC46	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC47	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC48	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08
0.05	0.731							
UC49	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.12	0.731							

UC5	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.22
0.14	0.731							
UC50	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.13
0.08	0.731							
UC51	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.28
0.18	0.731							
UC52	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.25
0.16	0.731							
UC53	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.35
0.22	0.731							
UC54	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.34
0.21	0.731							
UC55	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.31
0.19	0.731							
UC56	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18
0.11	0.731							
UC57	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16
0.10	0.731							
UC58	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.13
0.08	0.731							
UC59	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731							
UC6	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731							
UC60	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.04	0.731							
UC61	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.12
0.06	0.528							
UC62	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.30
0.19	0.731							
UC63	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC64	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							
UC65	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731							
UC66	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.03
0.02	0.731							
UC67	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.00
0.00	0.731							
UC68	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.07	0.731							
UC69	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731							

UC7	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.13	0.08	0.731
UC70	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02	0.02	0.731
UC71	60.51	0.00	0.00	15.79	32.51	11.58	44.09	0.37	0.22	0.729
UC72	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02	0.02	0.731
UC73	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16	0.10	0.731
UC74	60.51	0.00	0.00	34.60	2.95	23.05	26.00	4.14	1.38	0.430
UC75	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.09	0.06	0.731
UC76	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.14	0.09	0.731
UC77	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.12	0.07	0.731
UC78	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.17	0.11	0.731
UC79	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02	0.02	0.731
UC8	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20	0.12	0.731
UC80	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.01	0.01	0.731
UC81	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.11	0.07	0.731
UC82	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.20	0.13	0.731
UC83	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.08	0.05	0.731
UC84	60.51	0.00	0.00	28.46	11.80	20.14	31.94	0.36	0.18	0.528
UC85	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.18	0.12	0.731
UC86	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15	0.09	0.731
UC87	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06	0.04	0.731
UC88	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07	0.05	0.731
UC89	60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.16	0.10	0.731

UC9		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.21
0.13	0.731								
UC90		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731								
UC91		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.02
0.01	0.731								
UC92		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.02	0.731								
UC93		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.09
0.06	0.731								
UC94		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.07
0.05	0.731								
UC95		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.04
0.03	0.731								
UC96		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731								
UC97		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.06
0.04	0.731								
UC98		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.10
0.06	0.731								
UC99		60.51	0.00	0.00	15.66	32.49	11.74	44.23	0.15
0.09	0.731								

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Node Depth Summary
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Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
CB15	JUNCTION	0.05	0.46	182.16	0 09:05	0.25
CB16	JUNCTION	0.00	0.00	181.95	0 00:00	0.00
CB17	JUNCTION	0.03	0.49	180.76	0 09:10	0.48
CB18	JUNCTION	0.00	0.00	181.40	0 00:00	0.00
CB19	JUNCTION	0.02	0.66	182.26	0 09:05	0.12
CB20	JUNCTION	0.04	0.81	182.15	0 09:05	0.26
CB21	JUNCTION	0.00	0.04	180.55	0 09:09	0.04
CB22	JUNCTION	0.00	0.00	181.20	0 00:00	0.00
CB23	JUNCTION	0.01	0.10	181.55	0 09:05	0.07

CB26	JUNCTION	0.03	0.19	179.53	0	09:08	0.19
CB27	JUNCTION	0.00	0.00	182.57	0	00:00	0.00
CB29	JUNCTION	0.00	0.00	185.26	0	00:00	0.00
CB30	JUNCTION	0.00	0.02	185.17	0	09:46	0.00
CB30_1	JUNCTION	0.04	1.57	185.50	0	09:26	0.71
CB31	JUNCTION	0.08	1.13	184.62	0	09:24	1.13
CB32	JUNCTION	0.10	1.22	184.64	0	09:24	1.21
CB33	JUNCTION	0.17	1.39	184.73	0	09:24	1.30
CB34	JUNCTION	0.00	0.00	184.40	0	00:00	0.00
CB35	JUNCTION	0.00	0.00	184.20	0	00:00	0.00
CB41	JUNCTION	0.09	0.85	182.62	0	09:19	0.85
CB42	JUNCTION	0.17	1.50	182.65	0	09:27	1.48
CB-58	JUNCTION	0.15	1.85	182.28	0	09:07	0.89
CBMH_1	JUNCTION	0.25	1.47	183.00	0	08:53	1.47
CBMH_40	JUNCTION	0.00	0.00	182.75	0	00:00	0.00
CBMH_41	JUNCTION	0.00	0.00	182.52	0	00:00	0.00
CBMH_42	JUNCTION	0.00	0.00	182.82	0	00:00	0.00
CBMH_44	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
CBMH_46	JUNCTION	0.06	0.33	182.33	0	09:13	0.32
CBMH_62	JUNCTION	0.00	0.06	182.69	0	09:08	0.05
CBMH1	JUNCTION	0.00	0.05	182.60	0	09:10	0.05
CBMH1_ON	JUNCTION	0.00	0.00	184.86	0	00:00	0.00
CBMH10_Main	JUNCTION	0.03	0.09	179.50	0	09:09	0.09
CBMH2	JUNCTION	0.02	0.04	180.77	0	09:06	0.04
CBMH2_ON	JUNCTION	0.00	0.00	184.54	0	00:00	0.00
CBMH3_ON	JUNCTION	0.00	0.00	184.25	0	00:00	0.00
CBMH4_ON	JUNCTION	0.13	0.25	184.24	0	09:08	0.24
CBMH5	JUNCTION	0.04	0.16	179.96	0	09:12	0.16
CBMH5_ON	JUNCTION	0.07	0.19	184.24	0	09:09	0.18
CBMH6_ON	JUNCTION	0.06	0.17	184.06	0	09:10	0.17
CBMH7	JUNCTION	0.00	0.00	182.38	0	00:00	0.00
CBMH7_ON	JUNCTION	0.04	0.13	183.84	0	09:11	0.13
CBMH8_ON	JUNCTION	0.06	0.20	183.46	0	09:09	0.20
CBMH9_ON	JUNCTION	0.02	0.07	182.80	0	09:09	0.07
DCB72	JUNCTION	0.00	0.00	180.43	0	00:00	0.00
DICBMH42	JUNCTION	0.75	1.02	177.67	0	09:54	1.02
J1	JUNCTION	0.15	0.59	183.59	0	09:08	0.59
J101	JUNCTION	0.29	1.30	182.07	0	08:59	1.30
J102	JUNCTION	0.39	1.74	182.04	0	09:02	1.74
J105	JUNCTION	0.00	0.00	183.98	0	00:00	0.00
J106	JUNCTION	0.00	0.00	183.62	0	00:00	0.00

J110	JUNCTION	0.21	1.37	182.19	0	09:13	1.34
J113	JUNCTION	0.19	1.25	182.17	0	08:59	1.25
J115	JUNCTION	0.00	0.00	183.07	0	00:00	0.00
J116	JUNCTION	0.00	0.00	176.45	0	00:00	0.00
J12	JUNCTION	0.02	0.05	183.38	0	09:08	0.05
J125	JUNCTION	0.89	1.62	180.01	0	09:17	1.59
J127	JUNCTION	0.04	0.25	180.96	0	09:12	0.24
J128	JUNCTION	0.08	0.52	181.44	0	09:12	0.49
J15	JUNCTION	0.02	0.07	180.78	0	09:09	0.07
J2	JUNCTION	0.02	0.13	183.00	0	09:15	0.13
J20	JUNCTION	0.02	0.07	179.58	0	09:10	0.07
J24	JUNCTION	0.09	0.35	178.11	0	09:13	0.34
J3	JUNCTION	0.04	0.22	181.80	0	09:20	0.22
J30	JUNCTION	0.00	0.00	186.43	0	00:00	0.00
J31	JUNCTION	0.00	0.00	185.91	0	00:00	0.00
J34	JUNCTION	0.00	0.00	181.75	0	00:00	0.00
J35	JUNCTION	0.00	0.00	181.98	0	00:00	0.00
J36	JUNCTION	0.00	0.00	179.96	0	00:00	0.00
J38	JUNCTION	0.00	0.00	180.00	0	00:00	0.00
J4	JUNCTION	0.00	0.00	185.20	0	00:00	0.00
J42	JUNCTION	0.00	0.00	179.01	0	00:00	0.00
J43	JUNCTION	0.00	0.00	178.80	0	00:00	0.00
J47	JUNCTION	0.00	0.02	180.01	0	09:17	0.00
J48	JUNCTION	0.00	0.00	180.60	0	00:00	0.00
J49	JUNCTION	0.02	0.24	181.16	0	09:16	0.23
J5	JUNCTION	0.02	0.06	184.91	0	09:08	0.06
J50	JUNCTION	0.00	0.00	178.47	0	00:00	0.00
J52	JUNCTION	0.12	0.44	179.12	0	09:12	0.44
J55	JUNCTION	0.11	0.41	178.91	0	09:13	0.41
J6	JUNCTION	0.01	0.09	181.32	0	09:22	0.09
J62	JUNCTION	0.11	0.40	178.77	0	09:13	0.40
J66	JUNCTION	0.00	0.00	176.80	0	00:00	0.00
J67	JUNCTION	0.00	0.00	176.71	0	00:00	0.00
J7	JUNCTION	0.03	0.17	182.56	0	09:10	0.17
J70	JUNCTION	0.06	0.19	176.11	0	09:09	0.19
J78	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J8	JUNCTION	0.01	0.09	184.48	0	09:18	0.08
J83	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J91	JUNCTION	0.88	1.39	179.76	0	09:17	1.37
J93	JUNCTION	0.03	0.09	182.24	0	09:13	0.08
J95	JUNCTION	0.02	0.08	182.46	0	09:13	0.07

J98	JUNCTION	0.12	0.86	182.04	0	09:10	0.86
MH_1	JUNCTION	0.09	0.27	181.51	0	08:54	0.27
MH_11	JUNCTION	0.03	0.19	183.31	0	09:05	0.18
MH_14	JUNCTION	0.05	0.35	184.10	0	09:08	0.35
MH_15	JUNCTION	0.04	0.31	183.05	0	09:07	0.31
MH_16	JUNCTION	0.05	0.34	182.93	0	09:08	0.34
MH_17	JUNCTION	0.04	0.32	182.47	0	09:12	0.31
MH_2	JUNCTION	0.10	0.31	180.91	0	08:54	0.31
MH_27	JUNCTION	0.05	0.35	183.43	0	09:05	0.34
MH_29	JUNCTION	0.00	0.00	183.90	0	00:00	0.00
MH_30	JUNCTION	0.00	0.00	183.08	0	00:00	0.00
MH_34	JUNCTION	0.04	0.31	183.44	0	09:06	0.31
MH_35	JUNCTION	0.04	0.32	183.05	0	09:13	0.29
MH_36	JUNCTION	0.05	0.38	183.01	0	09:13	0.31
MH_37	JUNCTION	0.08	0.70	182.95	0	09:13	0.63
MH_38	JUNCTION	0.10	0.74	182.76	0	09:13	0.70
MH_39	JUNCTION	0.27	0.78	182.46	0	09:13	0.77
MH_43	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MH_45	JUNCTION	0.02	0.20	182.33	0	09:14	0.18
MH_47	JUNCTION	0.36	0.77	182.33	0	09:13	0.76
MH_56	JUNCTION	0.09	0.83	184.00	0	09:03	0.70
MH_57	JUNCTION	0.07	0.26	183.10	0	09:08	0.24
MH_58	JUNCTION	0.07	0.31	182.99	0	09:08	0.27
MH_59	JUNCTION	0.00	0.00	183.44	0	00:00	0.00
MH_61	JUNCTION	0.00	0.00	183.17	0	00:00	0.00
MH_63	JUNCTION	0.07	0.24	182.69	0	09:15	0.23
MH_64	JUNCTION	0.07	0.23	182.44	0	09:15	0.23
MH_65	JUNCTION	0.14	0.36	182.23	0	10:29	0.36
MH_66	JUNCTION	0.16	0.41	182.23	0	10:30	0.41
MH_67	JUNCTION	0.51	0.90	182.23	0	10:31	0.90
MH_68	JUNCTION	0.67	1.11	182.23	0	10:31	1.10
MH_69	JUNCTION	0.12	0.25	180.51	0	10:32	0.25
MH_70	JUNCTION	0.12	0.25	179.91	0	10:32	0.25
MH1	JUNCTION	0.03	2.30	183.41	0	09:08	0.94
MH1_Main	JUNCTION	0.06	1.59	185.44	0	09:51	0.79
MH10	JUNCTION	0.28	1.24	180.74	0	09:09	1.24
MH10__S	JUNCTION	0.00	0.02	183.17	0	09:09	0.02
MH10_Main	JUNCTION	0.13	0.40	177.18	0	09:14	0.39
MH11	JUNCTION	0.19	1.25	180.55	0	09:09	1.25
MH11__S	JUNCTION	0.12	0.62	183.39	0	09:07	0.37
MH11_Main	JUNCTION	0.07	0.20	176.54	0	09:14	0.20

MH12	JUNCTION	0.02	0.19	181.39	0	09:05	0.13
MH13	JUNCTION	0.27	1.30	180.10	0	09:10	1.30
MH13_Main	JUNCTION	0.03	0.14	181.40	0	09:10	0.14
MH13_Main_	JUNCTION	0.07	0.42	181.17	0	09:16	0.41
MH14	JUNCTION	0.13	1.29	179.64	0	09:10	1.29
MH14_Main	JUNCTION	0.10	0.62	181.17	0	09:16	0.60
MH15	JUNCTION	0.13	1.12	179.32	0	09:10	1.11
MH15_Main	JUNCTION	0.11	0.67	181.16	0	09:16	0.66
MH16	JUNCTION	0.11	0.81	178.81	0	09:10	0.81
MH2	JUNCTION	0.09	2.40	183.40	0	09:08	1.05
MH2_Main	JUNCTION	0.16	1.52	184.87	0	09:24	1.29
MH2_S	JUNCTION	0.03	0.25	184.20	0	09:08	0.24
MH21	JUNCTION	0.11	1.98	183.10	0	09:16	0.71
MH21_S	JUNCTION	0.02	0.16	182.96	0	09:26	0.16
MH22	JUNCTION	0.21	2.21	182.90	0	09:07	1.08
MH23	JUNCTION	0.13	2.04	182.80	0	09:07	0.99
MH24	JUNCTION	0.17	1.78	182.37	0	09:07	1.15
MH25	JUNCTION	0.11	0.58	180.68	0	09:16	0.50
MH25-1	JUNCTION	0.14	0.69	180.95	0	09:16	0.62
MH26	JUNCTION	0.06	0.26	180.02	0	09:16	0.25
MH3	JUNCTION	0.08	1.97	182.89	0	09:08	1.04
MH3_Main	JUNCTION	0.14	0.92	183.74	0	09:34	0.91
MH3_S	JUNCTION	0.01	0.09	184.20	0	09:09	0.09
MH30	JUNCTION	0.07	0.33	179.76	0	09:10	0.33
MH31	JUNCTION	0.07	0.35	179.68	0	09:11	0.34
MH32	JUNCTION	0.07	0.40	179.61	0	09:11	0.40
MH33	JUNCTION	0.12	0.45	179.57	0	09:11	0.44
MH34	JUNCTION	0.04	0.16	179.22	0	09:05	0.15
MH34_S	JUNCTION	0.01	0.08	181.56	0	09:05	0.08
MH35	JUNCTION	0.05	0.17	179.12	0	09:06	0.16
MH36	JUNCTION	0.04	0.22	179.05	0	09:12	0.21
MH36_S	JUNCTION	0.01	0.08	182.05	0	09:14	0.07
MH37	JUNCTION	0.00	0.00	179.80	0	00:00	0.00
MH37_S	JUNCTION	0.00	0.00	182.34	0	00:00	0.00
MH38	JUNCTION	0.00	0.00	179.55	0	00:00	0.00
MH39	JUNCTION	0.00	0.02	179.44	0	09:21	0.02
MH4	JUNCTION	0.08	1.09	181.79	0	09:10	1.07
MH4_Main	JUNCTION	0.20	1.43	183.09	0	09:33	1.41
MH40	JUNCTION	0.09	0.47	179.30	0	09:11	0.46
MH41	JUNCTION	0.07	0.36	179.04	0	09:12	0.35
MH41_S	JUNCTION	0.11	0.20	182.06	0	09:12	0.20

MH42	JUNCTION	0.09	0.21	177.66	0	09:54	0.21
MH43	JUNCTION	0.09	0.21	177.49	0	09:55	0.21
MH5	JUNCTION	0.04	0.29	182.74	0	09:08	0.28
MH5_Main	JUNCTION	0.31	1.93	182.68	0	09:27	1.92
MH6	JUNCTION	0.04	0.28	182.60	0	09:09	0.28
MH6_Main	JUNCTION	0.29	0.92	181.16	0	09:18	0.90
MH7	JUNCTION	0.04	0.29	182.39	0	09:11	0.29
MH7_Main	JUNCTION	0.07	0.19	180.44	0	09:18	0.19
MH8	JUNCTION	0.08	1.16	181.67	0	09:10	1.14
MH8_Main	JUNCTION	0.38	1.76	179.32	0	09:18	1.75
MH8_S	JUNCTION	0.02	0.08	184.04	0	09:06	0.07
MH9	JUNCTION	0.09	1.24	181.51	0	09:10	1.22
MH9__S	JUNCTION	0.02	0.26	183.48	0	09:07	0.21
MH9_Main	JUNCTION	0.12	0.37	177.98	0	09:18	0.37
MJ_	JUNCTION	0.00	0.00	182.63	0	00:00	0.00
MJ1	JUNCTION	0.05	0.16	177.63	0	09:23	0.16
MJ10	JUNCTION	0.00	0.03	183.53	0	09:07	0.03
MJ100	JUNCTION	0.03	0.12	182.38	0	09:07	0.11
MJ101	JUNCTION	0.01	0.09	183.78	0	09:06	0.08
MJ102	JUNCTION	0.30	0.42	183.29	1	00:00	0.42
MJ103	JUNCTION	0.03	0.08	183.09	0	09:07	0.08
MJ104	JUNCTION	0.01	0.06	184.26	0	09:13	0.06
MJ105	JUNCTION	0.38	1.87	186.34	0	09:51	0.54
MJ106	JUNCTION	0.00	0.00	183.57	0	00:00	0.00
MJ107	JUNCTION	0.01	0.07	184.23	0	09:18	0.07
MJ108	JUNCTION	0.01	0.05	185.73	0	09:07	0.05
MJ109	JUNCTION	0.00	0.00	184.90	0	00:00	0.00
MJ11	JUNCTION	0.00	0.00	178.72	0	00:00	0.00
MJ110	JUNCTION	0.10	0.18	182.21	0	09:08	0.18
MJ111	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MJ112	JUNCTION	0.02	0.13	180.76	0	09:10	0.13
MJ113	JUNCTION	0.01	0.03	184.27	0	09:07	0.03
MJ114	JUNCTION	0.00	0.02	184.56	0	09:14	0.02
MJ115	JUNCTION	0.01	0.05	185.47	0	09:05	0.04
MJ116	JUNCTION	0.03	0.11	182.09	0	09:07	0.11
MJ117	JUNCTION	0.00	0.01	185.55	0	09:09	0.01
MJ118	JUNCTION	0.19	0.30	185.01	0	09:34	0.30
MJ119	JUNCTION	0.28	0.42	180.63	0	09:16	0.41
MJ12	JUNCTION	0.03	0.12	179.13	0	09:06	0.12
MJ120	JUNCTION	0.26	0.34	184.26	0	10:04	0.34
MJ121	JUNCTION	0.00	0.00	186.66	0	00:00	0.00

MJ122	JUNCTION	0.02	0.09	184.34	0	09:07	0.09
MJ123	JUNCTION	0.00	0.00	187.14	0	00:00	0.00
MJ124	JUNCTION	0.13	0.25	180.63	0	09:16	0.25
MJ125	JUNCTION	0.01	0.08	186.19	0	09:06	0.07
MJ126	JUNCTION	0.00	0.00	185.15	0	00:00	0.00
MJ127	JUNCTION	0.01	0.06	185.92	0	09:06	0.05
MJ128	JUNCTION	0.02	0.10	182.19	0	09:07	0.10
MJ129	JUNCTION	0.06	0.29	182.07	0	09:19	0.29
MJ13	JUNCTION	0.01	0.08	178.68	0	09:07	0.08
MJ130	JUNCTION	0.02	0.13	186.20	0	09:06	0.12
MJ131	JUNCTION	0.01	0.04	184.29	0	09:05	0.03
MJ132	JUNCTION	0.06	0.33	182.07	0	09:18	0.33
MJ133	JUNCTION	0.00	0.00	186.56	0	00:00	0.00
MJ134	JUNCTION	0.09	0.36	181.75	0	09:39	0.36
MJ135	JUNCTION	0.01	0.08	183.33	0	09:05	0.07
MJ136	JUNCTION	0.01	0.04	183.40	0	09:09	0.04
MJ137	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
MJ138	JUNCTION	0.00	0.00	187.83	0	00:00	0.00
MJ139	JUNCTION	0.01	0.06	181.99	0	09:05	0.04
MJ14	JUNCTION	0.01	0.06	181.55	0	09:08	0.06
MJ140	JUNCTION	0.00	0.00	182.18	0	09:15	0.00
MJ142	JUNCTION	0.01	0.11	182.73	0	09:08	0.10
MJ143	JUNCTION	0.01	0.04	184.20	0	09:06	0.04
MJ144	JUNCTION	0.00	0.00	182.85	0	00:00	0.00
MJ145	JUNCTION	0.02	0.12	182.65	0	09:09	0.12
MJ146	JUNCTION	0.08	2.00	184.36	0	09:10	0.60
MJ147	JUNCTION	0.03	0.14	183.15	0	09:12	0.14
MJ148	JUNCTION	0.04	0.17	183.18	0	09:12	0.17
MJ149	JUNCTION	0.01	0.20	184.20	0	09:08	0.19
MJ15	JUNCTION	0.01	0.06	188.59	0	09:08	0.06
MJ150	JUNCTION	0.00	0.00	184.44	0	00:00	0.00
MJ151	JUNCTION	0.02	0.13	183.51	0	09:07	0.13
MJ152	JUNCTION	0.03	0.14	183.84	0	09:09	0.14
MJ153	JUNCTION	0.02	0.10	184.42	0	09:09	0.10
MJ154	JUNCTION	0.04	0.19	184.66	0	09:14	0.18
MJ155	JUNCTION	0.01	0.09	185.27	0	09:13	0.09
MJ156	JUNCTION	0.00	0.00	185.85	0	00:00	0.00
MJ157	JUNCTION	0.00	0.00	186.21	0	00:00	0.00
MJ158	JUNCTION	0.00	0.00	183.48	0	00:00	0.00
MJ16	JUNCTION	0.00	0.02	178.67	0	09:18	0.02
MJ17	JUNCTION	0.01	0.04	181.87	0	09:06	0.03

MJ18	JUNCTION	0.02	0.08	183.44	0	09:11	0.08
MJ19	JUNCTION	0.10	0.15	181.14	0	09:07	0.15
MJ2	JUNCTION	0.02	0.08	177.83	0	09:11	0.08
MJ20	JUNCTION	0.01	0.04	183.32	0	09:09	0.04
MJ21	JUNCTION	0.01	0.08	179.00	0	09:08	0.08
MJ22	JUNCTION	0.22	0.37	186.53	0	09:08	0.36
MJ23	JUNCTION	0.01	0.04	179.31	0	09:06	0.04
MJ24	JUNCTION	0.06	0.38	182.19	0	09:26	0.38
MJ25	JUNCTION	0.03	0.11	183.56	0	09:08	0.11
MJ26	JUNCTION	0.03	0.10	182.98	0	09:11	0.10
MJ27	JUNCTION	0.04	0.12	179.94	0	09:24	0.11
MJ28	JUNCTION	0.00	0.00	183.09	0	00:00	0.00
MJ29	JUNCTION	0.24	0.33	181.37	1	00:00	0.33
MJ3	JUNCTION	0.04	0.14	177.53	0	09:09	0.14
MJ30	JUNCTION	0.02	0.11	181.46	0	09:10	0.11
MJ31	JUNCTION	0.01	0.07	181.14	0	09:11	0.07
MJ32	JUNCTION	0.01	0.05	181.99	0	09:09	0.05
MJ33	JUNCTION	0.01	0.05	181.74	0	09:15	0.05
MJ34	JUNCTION	0.01	0.05	179.75	0	09:06	0.05
MJ35	JUNCTION	0.05	0.15	180.31	0	09:23	0.15
MJ36	JUNCTION	0.03	0.14	182.81	0	09:09	0.14
MJ37	JUNCTION	0.01	0.04	178.68	0	09:14	0.04
MJ38	JUNCTION	0.04	0.13	181.80	0	09:12	0.12
MJ39	JUNCTION	0.00	0.00	183.95	0	00:00	0.00
MJ4	JUNCTION	0.00	0.00	179.70	0	00:00	0.00
MJ40	JUNCTION	0.00	0.02	182.94	0	09:20	0.02
MJ41	JUNCTION	0.01	0.07	183.56	0	09:14	0.06
MJ42	JUNCTION	0.04	0.13	180.79	0	09:22	0.13
MJ43	JUNCTION	0.00	0.00	186.65	0	00:00	0.00
MJ44	JUNCTION	0.01	0.04	183.43	0	09:18	0.04
MJ45	JUNCTION	0.00	0.02	184.82	0	09:06	0.02
MJ46	JUNCTION	0.00	0.03	181.59	0	09:07	0.03
MJ47	JUNCTION	0.07	0.12	182.95	0	09:08	0.12
MJ48	JUNCTION	0.10	0.31	176.76	0	09:26	0.31
MJ49	JUNCTION	0.01	0.03	182.93	0	09:15	0.03
MJ5	JUNCTION	0.01	0.09	183.72	0	09:05	0.07
MJ50	JUNCTION	0.12	0.18	182.78	1	00:00	0.18
MJ51	JUNCTION	0.01	0.03	181.07	0	09:07	0.03
MJ52	JUNCTION	0.13	0.19	182.78	1	00:00	0.19
MJ53	JUNCTION	0.00	0.01	182.26	0	09:08	0.01
MJ54	JUNCTION	0.00	0.00	182.45	0	00:00	0.00

MJ55	JUNCTION	0.02	0.09	178.62	0	09:10	0.09
MJ56	JUNCTION	0.00	0.02	182.93	0	09:08	0.02
MJ57	JUNCTION	0.01	0.06	178.89	0	09:09	0.06
MJ58	JUNCTION	0.27	0.36	182.78	1	00:00	0.36
MJ59	JUNCTION	0.23	0.31	182.26	1	00:00	0.31
MJ60	JUNCTION	0.01	0.07	180.08	0	09:08	0.07
MJ61	JUNCTION	0.31	0.42	181.16	1	00:00	0.42
MJ62	JUNCTION	0.00	0.00	183.87	0	00:00	0.00
MJ63	JUNCTION	0.04	0.12	182.35	0	09:21	0.12
MJ64	JUNCTION	0.09	0.18	182.35	0	09:21	0.18
MJ65	JUNCTION	0.01	0.04	182.52	0	09:07	0.04
MJ66	JUNCTION	0.01	0.05	180.34	0	09:09	0.05
MJ67	JUNCTION	0.06	0.18	186.17	0	09:12	0.18
MJ68	JUNCTION	0.00	0.00	184.22	0	00:00	0.00
MJ69	JUNCTION	0.01	0.07	182.36	0	09:07	0.06
MJ7	JUNCTION	0.03	0.12	186.71	0	09:08	0.12
MJ70	JUNCTION	0.01	0.06	183.32	0	09:08	0.06
MJ71	JUNCTION	0.01	0.07	179.08	0	09:07	0.07
MJ72	JUNCTION	0.05	0.17	182.61	0	09:17	0.16
MJ73	JUNCTION	0.01	0.08	182.43	0	09:09	0.08
MJ74	JUNCTION	0.03	0.14	182.79	0	09:11	0.14
MJ75	JUNCTION	0.02	0.08	183.05	0	09:14	0.08
MJ76	JUNCTION	0.01	0.04	183.78	0	09:08	0.04
MJ77	JUNCTION	0.01	0.04	182.40	0	09:07	0.04
MJ78	JUNCTION	0.01	0.05	183.18	0	09:09	0.05
MJ79	JUNCTION	0.02	0.09	182.74	0	09:13	0.09
MJ8	JUNCTION	0.00	0.00	189.00	0	00:00	0.00
MJ80	JUNCTION	0.01	0.06	182.78	0	09:07	0.05
MJ81	JUNCTION	0.02	0.11	183.26	0	09:07	0.10
MJ82	JUNCTION	0.02	0.10	182.79	0	09:13	0.09
MJ83	JUNCTION	0.06	0.18	182.66	0	09:17	0.18
MJ84	JUNCTION	0.01	0.04	185.68	0	09:05	0.03
MJ85	JUNCTION	0.01	0.04	183.93	0	09:08	0.03
MJ86	JUNCTION	0.01	0.05	184.40	0	09:06	0.04
MJ87	JUNCTION	0.07	0.18	183.50	0	09:11	0.18
MJ88	JUNCTION	0.00	0.00	183.05	0	00:00	0.00
MJ89	JUNCTION	0.03	0.11	182.87	0	09:13	0.11
MJ9	JUNCTION	0.02	0.09	178.73	0	09:07	0.09
MJ90	JUNCTION	0.24	0.33	182.00	1	00:00	0.33
MJ91	JUNCTION	0.01	0.03	184.17	0	09:09	0.03
MJ92	JUNCTION	0.02	0.06	186.03	0	09:09	0.06

MJ93	JUNCTION	0.01	0.05	185.01	0	09:05	0.04
MJ94	JUNCTION	0.07	0.10	184.62	1	00:00	0.10
MJ95	JUNCTION	0.03	0.12	181.28	0	09:08	0.12
MJ96	JUNCTION	0.03	0.06	182.97	0	10:17	0.06
MJ97	JUNCTION	0.49	0.64	183.08	0	10:03	0.64
MJ98	JUNCTION	0.03	0.11	183.48	0	09:11	0.11
MJ99	JUNCTION	0.01	0.05	185.42	0	09:09	0.05
OGS-	JUNCTION	0.08	0.25	180.74	0	08:54	0.25
RICE_POND_OUTLET	JUNCTION	0.12	0.24	181.06	0	10:31	0.24
OF10-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF11-M	OUTFALL	0.00	0.00	183.10	0	00:00	0.00
OF12-	OUTFALL	0.02	0.19	179.34	0	09:08	0.19
OF13-	OUTFALL	0.08	0.25	180.56	0	08:54	0.25
OF14-	OUTFALL	0.12	0.25	179.79	0	10:32	0.25
OF15-	OUTFALL	0.00	0.00	177.00	0	00:00	0.00
OF16-	OUTFALL	0.04	0.16	177.16	0	09:12	0.16
OF17-	OUTFALL	0.11	0.66	178.46	0	09:10	0.66
OF18-M	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF19-	OUTFALL	0.03	0.09	178.24	0	09:09	0.09
OF1-M	OUTFALL	0.10	0.31	175.31	0	09:26	0.31
OF20-	OUTFALL	0.08	0.26	179.41	0	09:17	0.26
OF21-	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF22_M	OUTFALL	0.00	0.00	181.25	0	00:00	0.00
OF23-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF24-	OUTFALL	0.06	0.26	177.52	0	09:16	0.25
OF25-	OUTFALL	0.08	0.25	177.84	0	09:00	0.25
OF26-M	OUTFALL	0.02	0.12	178.64	0	09:16	0.11
OF27-1	OUTFALL	0.07	0.17	177.36	0	09:55	0.17
OF27-M	OUTFALL	0.01	0.09	178.95	0	09:22	0.09
OF28-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF29-	OUTFALL	0.00	0.00	178.63	0	00:00	0.00
OF2-M	OUTFALL	0.03	0.12	177.22	0	09:24	0.11
OF2-M-	OUTFALL	0.01	0.06	177.16	0	09:07	0.05
OF3-	OUTFALL	0.07	0.20	176.20	0	09:14	0.20
OF30-M	OUTFALL	0.01	0.06	179.89	0	09:08	0.06
OF31-M	OUTFALL	0.01	0.07	181.45	0	09:11	0.07
OF32-M	OUTFALL	0.03	0.17	185.09	0	09:08	0.17
OF33-	OUTFALL	0.09	0.35	177.38	0	09:13	0.34
OF34-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF35-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF36-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00

OF37-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF38-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF39-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF3-M	OUTFALL	0.01	0.08	177.82	0	09:07	0.08
OF40-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF41-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF42-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF43-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF44-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF45-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF46-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF47-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF48-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF49-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF4-M	OUTFALL	0.01	0.05	175.67	0	09:07	0.05
OF50	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF51	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF52	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF53	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF54	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF55	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF56	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF57	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF58	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF59	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF5-M	OUTFALL	0.01	0.03	182.89	0	09:14	0.03
OF6-	OUTFALL	0.05	0.19	175.69	0	09:09	0.19
OF60	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF61	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF62	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF7-M	OUTFALL	0.02	0.12	177.26	0	09:09	0.12
OF8-	OUTFALL	0.00	0.00	176.00	0	00:00	0.00
OF9-M	OUTFALL	0.03	0.12	179.16	0	09:07	0.11
Gill_RD_Pond	STORAGE	0.86	1.40	178.05	0	09:54	1.40
Rice_Pond	STORAGE	2.49	2.97	182.22	0	10:31	2.97

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent	
CB15	JUNCTION	0.139	0.139	0	09:05	0.221	0.221	0.009	
CB16	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB17	JUNCTION	0.097	0.097	0	09:05	0.154	0.154	0.142	
CB18	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB19	JUNCTION	0.080	0.080	0	09:05	0.127	0.127	0.000	
CB20	JUNCTION	0.116	0.195	0	09:05	0.184	0.31	0.007	
CB21	JUNCTION	0.000	0.002	0	09:09	0	6.13e-05	0.847	
CB22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB23	JUNCTION	0.022	0.022	0	09:05	0.0344	0.0344	0.018	
CB26	JUNCTION	0.000	0.102	0	09:08	0	0.199	0.003	
CB27	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB30	JUNCTION	0.000	0.013	0	09:46	0	7.16e-05	4.734	
CB30_1	JUNCTION	0.000	0.038	0	09:46	0	0.00217	-0.865	
CB31	JUNCTION	0.000	0.089	0	09:54	0	0.0392	-1.300	
CB32	JUNCTION	0.000	0.091	0	09:54	0	0.0449	-0.170	
CB33	JUNCTION	0.000	0.131	0	09:52	0	0.00407	1.483	
CB34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB35	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB41	JUNCTION	0.000	0.045	0	09:28	0	0.0644	-0.005	
CB42	JUNCTION	0.000	0.045	0	09:28	0	0.0664	-0.013	
CB-58	JUNCTION	0.000	0.555	0	09:16	0	2.36	0.052	
CBMH_1	JUNCTION	1.498	1.498	0	09:05	2.65	2.65	0.024	
CBMH_40	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_41	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_44	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_46	JUNCTION	0.000	0.021	0	09:06	0	0.00748	0.116	
CBMH_62	JUNCTION	0.000	0.003	0	09:04	0	0.000751	0.493	
CBMH1	JUNCTION	0.000	0.002	0	09:06	0	0.000235	4.862	
CBMH1_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH10_Main	JUNCTION	0.000	0.101	0	09:09	0	0.559	0.006	
CBMH2	JUNCTION	0.000	0.009	0	09:05	0	0.0746	0.020	
CBMH2_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH3_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr

CBMH4_ON	JUNCTION	0.000	0.005	0	09:04	0	0.00452	38.366	
CBMH5	JUNCTION	0.000	0.196	0	09:12	0	0.947	0.008	
CBMH5_ON	JUNCTION	0.032	0.045	0	09:05	0.051	0.273	0.265	
CBMH6_ON	JUNCTION	0.000	0.041	0	09:09	0	0.268	0.241	
CBMH7	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH7_ON	JUNCTION	0.000	0.040	0	09:10	0	0.267	-0.170	
CBMH8_ON	JUNCTION	0.000	0.103	0	09:08	0	0.56	0.234	
CBMH9_ON	JUNCTION	0.000	0.101	0	09:09	0	0.559	0.002	
DCB72	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
DICBMH42	JUNCTION	0.000	0.088	0	09:54	0	1.22	0.058	
J1	JUNCTION	0.339	0.339	0	09:05	0.608	0.608	-0.011	
J101	JUNCTION	0.000	0.376	0	09:18	0	1.16	3.271	
J102	JUNCTION	0.000	0.359	0	09:12	0	2.16	1.437	
J105	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J110	JUNCTION	0.000	0.026	0	09:13	0	0.148	-2.231	
J113	JUNCTION	0.000	0.029	0	09:18	0	0.155	1.328	
J115	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J116	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J12	JUNCTION	0.000	0.017	0	09:08	0	0.118	0.025	
J125	JUNCTION	0.000	0.506	0	09:17	0	3.78	0.212	
J127	JUNCTION	0.102	0.212	0	09:07	0.163	0.753	0.015	
J128	JUNCTION	0.000	0.164	0	09:12	0	0.591	0.010	
J15	JUNCTION	0.000	0.017	0	09:08	0	0.118	0.046	
J2	JUNCTION	0.000	0.121	0	09:11	0	0.346	0.119	
J20	JUNCTION	0.000	0.017	0	09:09	0	0.118	0.149	
J24	JUNCTION	0.000	0.487	0	09:13	0	2.6	0.011	
J3	JUNCTION	0.000	0.118	0	09:15	0	0.346	0.551	
J30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J31	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J35	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J36	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J38	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J47	JUNCTION	0.000	0.000	0	09:13	0	2.96e-05	0.207	
J48	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J49	JUNCTION	0.000	0.005	0	09:09	0	0.000466	0.087	
J5	JUNCTION	0.000	0.017	0	09:08	0	0.118	0.044	

J50	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J52	JUNCTION	0.000	0.316	0	09:12	0	1.83	0.036	
J55	JUNCTION	0.000	0.316	0	09:12	0	1.83	-0.001	
J6	JUNCTION	0.000	0.109	0	09:21	0	0.344	0.134	
J62	JUNCTION	0.000	0.316	0	09:13	0	1.83	0.010	
J66	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J67	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J7	JUNCTION	0.000	0.116	0	09:09	0	0.262	0.150	
J70	JUNCTION	0.000	0.082	0	09:09	0	0.532	0.017	
J78	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J8	JUNCTION	0.000	0.328	0	09:16	0	0.748	0.623	
J83	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J91	JUNCTION	0.000	0.506	0	09:17	0	3.77	0.079	
J93	JUNCTION	0.000	0.017	0	09:13	0	0.117	0.105	
J95	JUNCTION	0.000	0.017	0	09:13	0	0.117	0.020	
J98	JUNCTION	0.000	0.030	0	09:03	0	0.117	-1.454	
MH_1	JUNCTION	0.000	0.168	0	09:38	0	1.44	0.026	
MH_11	JUNCTION	0.076	0.076	0	09:05	0.194	0.194	0.085	
MH_14	JUNCTION	0.175	0.175	0	09:05	0.45	0.45	0.011	
MH_15	JUNCTION	0.000	0.245	0	09:07	0	0.643	-0.024	
MH_16	JUNCTION	0.000	0.245	0	09:08	0	0.644	-0.008	
MH_17	JUNCTION	0.000	0.245	0	09:08	0	0.644	0.201	
MH_2	JUNCTION	0.000	0.168	0	08:54	0	1.44	0.008	
MH_27	JUNCTION	0.355	0.355	0	09:05	0.913	0.913	0.267	
MH_29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_34	JUNCTION	0.170	0.170	0	09:05	0.436	0.436	0.005	
MH_35	JUNCTION	0.000	0.169	0	09:06	0	0.436	0.042	
MH_36	JUNCTION	0.000	0.169	0	09:06	0	0.436	-0.084	
MH_37	JUNCTION	0.000	0.579	0	09:09	0	1.56	-0.132	
MH_38	JUNCTION	0.000	0.555	0	09:08	0	1.56	0.172	
MH_39	JUNCTION	0.000	1.009	0	09:13	0	3.28	-0.101	
MH_43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_45	JUNCTION	0.000	0.006	0	09:06	0	0.00126	0.650	
MH_47	JUNCTION	0.000	1.009	0	09:13	0	3.29	0.418	
MH_56	JUNCTION	0.000	0.155	0	09:09	0	0.566	-0.373	
MH_57	JUNCTION	0.000	0.091	0	09:08	0	0.56	0.024	
MH_58	JUNCTION	0.000	0.090	0	09:08	0	0.56	0.015	
MH_59	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_61	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_63	JUNCTION	0.000	0.089	0	09:08	0	0.56	0.075	

MH_64	JUNCTION	0.000	0.088	0	09:15	0	0.559	0.227
MH_65	JUNCTION	0.000	0.174	0	09:09	0	0.855	0.035
MH_66	JUNCTION	0.000	0.173	0	09:09	0	0.855	0.110
MH_67	JUNCTION	0.000	1.172	0	09:14	0	4.12	-0.037
MH_68	JUNCTION	0.000	1.172	0	09:14	0	4.12	0.087
MH_69	JUNCTION	0.000	0.175	0	10:31	0	3.33	0.055
MH_70	JUNCTION	0.000	0.175	0	10:32	0	3.33	0.007
MH1	JUNCTION	0.000	0.004	0	09:08	0	0.000647	0.056
MH1_Main	JUNCTION	0.000	0.049	0	09:45	0	0.116	-0.056
MH10	JUNCTION	0.000	0.762	0	09:10	0	2.05	0.010
MH10__S	JUNCTION	0.000	0.084	0	09:07	0	0.00516	0.405
MH10_Main	JUNCTION	0.000	0.253	0	09:13	0	2.37	0.194
MH11	JUNCTION	0.000	1.172	0	09:07	0	2.91	0.053
MH11__S	JUNCTION	0.000	0.413	0	09:05	0	0.583	5.762
MH11_Main	JUNCTION	0.000	0.252	0	09:14	0	2.36	0.011
MH12	JUNCTION	0.000	0.195	0	09:05	0	0.31	0.031
MH13	JUNCTION	0.000	1.186	0	09:09	0	3.13	0.035
MH13_Main	JUNCTION	0.000	0.039	0	09:09	0	0.119	0.969
MH13_Main_	JUNCTION	0.000	0.038	0	09:11	0	0.118	-0.656
MH14	JUNCTION	0.000	1.179	0	09:10	0	3.13	0.020
MH14_Main	JUNCTION	0.000	0.039	0	09:10	0	0.119	-0.154
MH15	JUNCTION	0.000	1.179	0	09:10	0	3.13	-0.001
MH15_Main	JUNCTION	0.000	0.033	0	09:11	0	0.121	0.043
MH16	JUNCTION	0.000	1.186	0	09:10	0	3.2	0.010
MH2	JUNCTION	0.000	0.282	0	09:08	0	0.745	0.038
MH2_Main	JUNCTION	0.000	0.375	0	09:49	0	1.24	-0.024
MH2_S	JUNCTION	0.253	0.501	0	09:05	0.401	0.775	0.091
MH21	JUNCTION	0.000	0.164	0	09:26	0	0.358	6.879
MH21_S	JUNCTION	0.477	0.605	0	09:05	0.757	1.55	0.161
MH22	JUNCTION	0.000	0.133	0	09:16	0	0.333	1.207
MH23	JUNCTION	0.000	0.133	0	09:16	0	0.33	0.106
MH24	JUNCTION	0.000	0.448	0	09:16	0	2.02	0.022
MH25	JUNCTION	0.000	0.555	0	09:16	0	2.36	0.008
MH25-1	JUNCTION	0.000	0.555	0	09:16	0	2.36	0.021
MH26	JUNCTION	0.000	0.552	0	09:16	0	2.36	0.006
MH3	JUNCTION	0.000	0.345	0	09:09	0	0.925	0.010
MH3_Main	JUNCTION	0.000	0.134	0	09:26	0	1.31	-0.043
MH3_S	JUNCTION	0.311	0.332	0	09:05	0.494	0.524	-0.098
MH30	JUNCTION	0.000	0.138	0	09:10	0	0.491	0.144
MH31	JUNCTION	0.000	0.138	0	09:10	0	0.49	0.048
MH32	JUNCTION	0.000	0.204	0	09:10	0	0.676	-0.098

MH33	JUNCTION	0.000	0.203	0	09:10	0	0.676	-0.397	
MH34	JUNCTION	0.000	0.043	0	09:05	0	0.188	0.032	
MH34_S	JUNCTION	0.292	0.318	0	09:05	0.464	0.852	-0.565	
MH35	JUNCTION	0.000	0.043	0	09:06	0	0.188	0.085	
MH36	JUNCTION	0.000	0.043	0	09:06	0	0.188	0.098	
MH36_S	JUNCTION	0.000	0.168	0	09:12	0	0.39	0.461	
MH37	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH37_S	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH38	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH39	JUNCTION	0.000	0.001	0	09:15	0	0.00245	5.061	
MH4	JUNCTION	0.000	0.355	0	09:09	0	1	0.037	
MH4_Main	JUNCTION	0.000	0.122	0	09:35	0	1.31	0.002	
MH40	JUNCTION	0.000	0.294	0	09:10	0	0.969	0.132	
MH41	JUNCTION	0.000	0.332	0	09:11	0	1.16	0.023	
MH41_S	JUNCTION	0.000	0.210	0	09:08	0	0.423	0.000	
MH42	JUNCTION	0.000	0.089	0	09:55	0	1.22	0.133	
MH43	JUNCTION	0.000	0.088	0	09:54	0	1.22	-0.015	
MH5	JUNCTION	0.000	0.074	0	09:07	0	0.164	0.104	
MH5_Main	JUNCTION	0.000	0.236	0	09:28	0	1.98	0.111	
MH6	JUNCTION	0.000	0.074	0	09:07	0	0.164	0.362	
MH6_Main	JUNCTION	0.000	0.214	0	09:17	0	2.06	0.176	
MH7	JUNCTION	0.000	0.072	0	09:09	0	0.163	-0.183	
MH7_Main	JUNCTION	0.000	0.214	0	09:17	0	2.05	0.031	
MH8	JUNCTION	0.000	0.422	0	09:12	0	1.16	0.046	
MH8_Main	JUNCTION	0.000	0.214	0	09:18	0	2.05	0.022	
MH8_S	JUNCTION	0.264	0.329	0	09:05	0.419	0.514	0.549	
MH9	JUNCTION	0.000	0.710	0	09:09	0	1.89	-0.005	
MH9__S	JUNCTION	0.000	0.286	0	09:07	0	0.511	-0.001	
MH9_Main	JUNCTION	0.000	0.226	0	09:17	0	2.15	0.014	
MJ_	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ1	JUNCTION	0.071	0.364	0	09:10	0.136	1.03	2.552	
MJ10	JUNCTION	0.008	0.082	0	09:05	0.016	0.137	0.038	
MJ100	JUNCTION	1.104	1.665	0	09:05	1.75	3.26	0.228	
MJ101	JUNCTION	0.254	0.257	0	09:05	0.403	0.427	0.128	
MJ102	JUNCTION	0.217	0.253	0	09:05	0.344	0.575	0.000	
MJ103	JUNCTION	0.270	0.288	0	09:05	0.428	0.674	0.819	
MJ104	JUNCTION	0.051	0.154	0	09:08	0.0813	0.448	0.492	
MJ105	JUNCTION	0.305	0.986	0	09:05	0.484	2.21	57.486	
MJ106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ107	JUNCTION	0.029	0.173	0	09:09	0.0465	0.515	-0.935	
MJ108	JUNCTION	0.242	0.242	0	09:05	0.385	0.385	-1.521	

MJ109	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ110	JUNCTION	0.160	0.160	0	09:05	0.254	0.254	0.665	
MJ111	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ112	JUNCTION	0.214	0.660	0	09:08	0.34	1.58	-0.053	
MJ113	JUNCTION	0.083	0.083	0	09:05	0.132	0.333	-1.236	
MJ114	JUNCTION	0.030	0.030	0	09:05	0.0473	0.0473	-3.464	
MJ115	JUNCTION	0.245	0.246	0	09:05	0.389	0.395	-0.038	
MJ116	JUNCTION	0.495	0.545	0	09:05	0.786	1.05	0.047	
MJ117	JUNCTION	0.015	0.015	0	09:05	0.0246	0.0246	-9.803	
MJ118	JUNCTION	0.094	0.931	0	09:13	0.15	1.77	37.053	
MJ119	JUNCTION	0.111	0.717	0	09:14	0.176	2.15	9.787	
MJ12	JUNCTION	0.591	0.591	0	09:05	1.18	1.18	-0.228	
MJ120	JUNCTION	0.236	0.347	0	09:05	0.375	0.634	0.000	
MJ121	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ122	JUNCTION	0.689	0.812	0	09:05	1.09	1.63	-0.124	
MJ123	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ124	JUNCTION	0.214	0.554	0	09:05	0.341	1.05	18.734	
MJ125	JUNCTION	0.228	0.228	0	09:05	0.361	0.361	-2.427	
MJ126	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ127	JUNCTION	0.132	0.132	0	09:05	0.21	0.21	-2.590	
MJ128	JUNCTION	0.405	0.425	0	09:05	0.643	0.71	-0.424	
MJ129	JUNCTION	0.455	0.909	0	09:05	0.723	2.13	-3.025	
MJ13	JUNCTION	0.418	0.538	0	09:05	0.664	0.997	0.009	
MJ130	JUNCTION	0.611	0.611	0	09:05	0.971	0.971	-3.467	
MJ131	JUNCTION	0.166	0.168	0	09:05	0.263	0.272	-0.081	
MJ132	JUNCTION	0.024	0.440	0	09:13	0.0388	1.41	-2.541	
MJ133	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ134	JUNCTION	0.724	1.177	0	09:10	1.15	3.06	1.122	
MJ135	JUNCTION	0.557	0.615	0	09:05	0.885	0.968	-0.216	
MJ136	JUNCTION	0.036	0.115	0	09:05	0.057	0.171	-1.828	
MJ137	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ138	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ139	JUNCTION	0.243	0.243	0	09:05	0.385	0.385	-0.023	
MJ14	JUNCTION	0.034	0.066	0	09:06	0.0661	0.137	0.372	
MJ140	JUNCTION	0.000	0.006	0	09:08	0	0.00278	9.372	
MJ142	JUNCTION	0.000	0.126	0	09:05	0	0.201	0.763	
MJ143	JUNCTION	0.127	0.127	0	09:05	0.202	0.202	0.122	
MJ144	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ145	JUNCTION	0.215	0.215	0	09:05	0.341	0.341	0.220	
MJ146	JUNCTION	0.315	0.776	0	09:05	0.501	1.69	0.252	

MJ147	JUNCTION	0.205	1.226	0	09:10	0.326	3.15	-0.802	
MJ148	JUNCTION	0.658	1.511	0	09:07	1.05	3.77	0.178	
MJ149	JUNCTION	0.000	0.071	0	09:05	0	0.0296	0.257	
MJ15	JUNCTION	0.354	0.354	0	09:05	0.562	0.562	-0.105	
MJ150	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ151	JUNCTION	0.103	0.103	0	09:05	0.164	0.164	0.115	
MJ152	JUNCTION	1.768	1.861	0	09:05	2.92	3.26	0.338	
MJ153	JUNCTION	0.335	0.340	0	09:05	0.532	0.637	0.183	
MJ154	JUNCTION	0.766	0.838	0	09:05	1.38	1.82	-0.009	
MJ155	JUNCTION	0.258	0.258	0	09:05	0.662	0.662	0.425	
MJ156	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ157	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ158	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ16	JUNCTION	0.000	0.008	0	09:07	0	0.00511	19.191	
MJ17	JUNCTION	0.093	0.093	0	09:05	0.148	0.148	-3.950	
MJ18	JUNCTION	0.022	0.132	0	09:08	0.0349	0.393	0.465	
MJ19	JUNCTION	0.211	0.263	0	09:05	0.336	0.455	11.098	
MJ2	JUNCTION	0.126	0.153	0	09:05	0.242	0.309	0.559	
MJ20	JUNCTION	0.027	0.041	0	09:05	0.0526	0.0818	0.625	
MJ21	JUNCTION	0.048	0.225	0	09:06	0.0757	0.433	0.412	
MJ22	JUNCTION	2.024	2.373	0	09:05	3.21	4.43	16.261	
MJ23	JUNCTION	0.039	0.039	0	09:05	0.0782	0.0782	0.104	
MJ24	JUNCTION	0.334	0.782	0	09:07	0.531	1.85	1.054	
MJ25	JUNCTION	0.188	0.200	0	09:05	0.335	0.375	0.562	
MJ26	JUNCTION	0.242	0.323	0	09:05	0.401	0.873	0.968	
MJ27	JUNCTION	0.155	0.750	0	09:23	0.315	3.27	0.144	
MJ28	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ29	JUNCTION	0.101	0.145	0	09:05	0.161	0.442	0.000	
MJ3	JUNCTION	0.356	0.996	0	09:06	0.565	3.09	0.322	
MJ30	JUNCTION	0.108	0.152	0	09:05	0.207	0.343	0.512	
MJ31	JUNCTION	0.128	0.223	0	09:08	0.245	0.587	-0.309	
MJ32	JUNCTION	0.081	0.104	0	09:05	0.156	0.238	0.587	
MJ33	JUNCTION	0.000	0.062	0	09:13	0	0.231	-0.879	
MJ34	JUNCTION	0.164	0.173	0	09:05	0.26	0.279	0.024	
MJ35	JUNCTION	0.098	0.687	0	09:22	0.198	2.97	0.331	
MJ36	JUNCTION	1.098	1.193	0	09:05	1.74	1.97	-0.086	
MJ37	JUNCTION	0.065	0.065	0	09:05	0.132	0.132	-3.371	
MJ38	JUNCTION	0.105	0.108	0	09:05	0.166	0.237	0.000	
MJ39	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ40	JUNCTION	0.000	0.019	0	09:08	0	0.017	8.354	

MJ41	JUNCTION	0.000	0.027	0	09:08	0	0.0152	6.836	
MJ42	JUNCTION	0.109	0.639	0	09:21	0.173	2.73	0.239	
MJ43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ44	JUNCTION	0.029	0.029	0	09:05	0.0551	0.0551	3.021	
MJ45	JUNCTION	0.052	0.052	0	09:05	0.083	0.083	-0.220	
MJ46	JUNCTION	0.027	0.029	0	09:05	0.0422	0.0495	-2.031	
MJ47	JUNCTION	0.097	0.097	0	09:05	0.153	0.155	0.000	
MJ48	JUNCTION	0.144	0.721	0	09:09	0.292	1.83	2.879	
MJ49	JUNCTION	0.000	0.042	0	09:09	0	0.12	-0.203	
MJ5	JUNCTION	0.078	0.078	0	09:05	0.121	0.121	0.111	
MJ50	JUNCTION	0.000	0.016	0	09:13	0	0.0291	2127.927	
MJ51	JUNCTION	0.039	0.039	0	09:05	0.0627	0.0627	0.373	
MJ52	JUNCTION	0.145	0.145	0	09:05	0.23	0.232	50.573	
MJ53	JUNCTION	0.013	0.013	0	09:05	0.0208	0.0208	-6.671	
MJ54	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ55	JUNCTION	0.165	0.428	0	09:08	0.334	0.965	-0.108	
MJ56	JUNCTION	0.040	0.040	0	09:05	0.0643	0.0643	-1.114	
MJ57	JUNCTION	0.065	0.132	0	09:07	0.104	0.34	0.229	
MJ58	JUNCTION	0.040	0.151	0	09:06	0.0628	0.237	0.000	
MJ59	JUNCTION	0.166	0.166	0	09:05	0.263	0.263	0.000	
MJ60	JUNCTION	0.014	0.196	0	09:07	0.0216	0.416	0.208	
MJ61	JUNCTION	0.139	0.212	0	09:05	0.221	0.411	0.000	
MJ62	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ63	JUNCTION	0.043	0.625	0	09:19	0.0688	2.58	0.401	
MJ64	JUNCTION	0.096	0.134	0	09:05	0.152	0.285	10.180	
MJ65	JUNCTION	0.087	0.119	0	09:05	0.138	0.223	-1.154	
MJ66	JUNCTION	0.008	0.082	0	09:07	0.0166	0.154	0.411	
MJ67	JUNCTION	0.777	0.777	0	09:05	1.23	1.23	1.700	
MJ68	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ69	JUNCTION	0.147	0.211	0	09:05	0.234	0.397	0.466	
MJ7	JUNCTION	0.641	0.732	0	09:05	1	1.22	0.015	
MJ70	JUNCTION	0.307	0.394	0	09:05	0.488	0.904	0.887	
MJ71	JUNCTION	0.210	0.210	0	09:05	0.425	0.425	-2.551	
MJ72	JUNCTION	0.138	0.558	0	09:15	0.219	2.25	0.347	
MJ73	JUNCTION	0.038	0.127	0	09:06	0.0609	0.238	-1.069	
MJ74	JUNCTION	0.248	0.314	0	09:05	0.394	0.696	0.278	
MJ75	JUNCTION	0.015	0.056	0	09:08	0.0242	0.143	1.154	
MJ76	JUNCTION	0.049	0.126	0	09:05	0.0782	0.227	0.639	
MJ77	JUNCTION	0.020	0.093	0	09:05	0.0318	0.16	0.356	
MJ78	JUNCTION	0.010	0.113	0	09:07	0.0156	0.259	-2.987	
MJ79	JUNCTION	0.020	0.173	0	09:13	0.0323	0.502	-0.019	

MJ8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ80	JUNCTION	0.096	0.150	0	09:05	0.152	0.258	-0.058	
MJ81	JUNCTION	0.104	0.123	0	09:05	0.165	0.245	0.478	
MJ82	JUNCTION	0.113	0.182	0	09:08	0.179	0.532	0.406	
MJ83	JUNCTION	0.038	0.384	0	09:13	0.0605	1.54	0.959	
MJ84	JUNCTION	0.191	0.191	0	09:05	0.303	0.303	-0.353	
MJ85	JUNCTION	0.000	0.153	0	09:06	0	0.399	0.053	
MJ86	JUNCTION	0.135	0.135	0	09:05	0.215	0.215	0.357	
MJ87	JUNCTION	0.238	0.257	0	09:05	0.378	0.464	0.000	
MJ88	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ89	JUNCTION	0.156	0.449	0	09:11	0.247	1.68	0.413	
MJ9	JUNCTION	0.178	0.178	0	09:05	0.36	0.36	0.414	
MJ90	JUNCTION	0.228	0.264	0	09:05	0.361	0.523	0.000	
MJ91	JUNCTION	0.032	0.075	0	09:05	0.0511	0.147	-3.602	
MJ92	JUNCTION	0.431	0.625	0	09:06	0.684	1.9	0.287	
MJ93	JUNCTION	0.272	0.300	0	09:05	0.432	0.662	0.026	
MJ94	JUNCTION	0.000	0.024	0	09:05	0	0.0404	0.000	
MJ95	JUNCTION	0.627	0.627	0	09:05	0.997	0.997	1.501	
MJ96	JUNCTION	0.000	0.031	0	10:07	0	0.384	2.065	
MJ97	JUNCTION	0.019	0.261	0	09:07	0.0296	0.414	0.000	
MJ98	JUNCTION	0.000	0.423	0	09:07	0	1.07	0.552	
MJ99	JUNCTION	0.030	0.256	0	09:09	0.0473	0.765	-0.021	
OGS-	JUNCTION	0.000	0.168	0	08:54	0	1.44	0.004	
RICE_POND_OUTLET	JUNCTION	0.000	0.175	0	10:31	0	3.33	0.043	
OF10-	OUTFALL	0.597	0.597	0	09:05	0.947	0.947	0.000	
OF11-M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF12-	OUTFALL	0.000	0.102	0	09:08	0	0.199	0.000	
OF13-	OUTFALL	0.000	0.168	0	08:54	0	1.44	0.000	
OF14-	OUTFALL	0.000	0.175	0	10:32	0	3.33	0.000	
OF15-	OUTFALL	1.712	1.712	0	09:05	2.72	2.72	0.000	
OF16-	OUTFALL	0.000	0.196	0	09:12	0	0.947	0.000	
OF17-	OUTFALL	0.129	1.253	0	09:08	0.205	3.41	0.000	
OF18-M	OUTFALL	0.065	0.065	0	09:05	0.103	0.103	0.000	
OF19-	OUTFALL	0.199	0.257	0	09:05	0.316	0.875	0.000	
OF1-M	OUTFALL	0.000	0.363	0	09:26	0	1.78	0.000	
OF20-	OUTFALL	0.000	0.506	0	09:17	0	3.77	0.000	
OF21-	OUTFALL	0.595	0.595	0	09:05	0.945	0.945	0.000	
OF22_M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF23-	OUTFALL	1.214	1.214	0	09:05	1.93	1.93	0.000	
OF24-	OUTFALL	1.384	1.854	0	09:09	4.14	6.5	0.000	
OF25-	OUTFALL	0.000	0.187	0	09:14	0	1.83	0.000	

OF26-M	OUTFALL	0.195	0.764	0	09:16	0.31	2.23	0.000	
OF27-1	OUTFALL	0.292	0.292	0	09:05	0.464	1.69	0.000	
OF27-M	OUTFALL	0.653	0.665	0	09:05	1.04	1.38	0.000	
OF28-	OUTFALL	0.881	0.881	0	09:05	1.38	1.38	0.000	
OF29-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF2-M	OUTFALL	0.000	0.748	0	09:24	0	3.27	0.000	
OF2-M-	OUTFALL	0.000	0.150	0	09:07	0	0.359	0.000	
OF3-	OUTFALL	0.100	0.314	0	09:13	0.202	2.56	0.000	
OF30-M	OUTFALL	0.119	0.368	0	09:07	0.188	0.923	0.000	
OF31-M	OUTFALL	0.127	0.329	0	09:08	0.202	1.07	0.000	
OF32-M	OUTFALL	0.000	1.735	0	09:08	0	3.81	0.000	
OF33-	OUTFALL	0.000	0.488	0	09:13	0	2.6	0.000	
OF34-	OUTFALL	2.290	2.290	0	09:05	3.75	3.75	0.000	
OF35-	OUTFALL	0.089	0.089	0	09:10	0.166	0.166	0.000	
OF36-	OUTFALL	0.410	0.410	0	09:05	0.715	0.715	0.000	
OF37-	OUTFALL	0.344	0.344	0	09:15	0.681	0.681	0.000	
OF38-	OUTFALL	0.210	0.210	0	09:10	0.391	0.391	0.000	
OF39-	OUTFALL	1.402	1.402	0	09:05	2.25	2.25	0.000	
OF3-M	OUTFALL	0.000	0.442	0	09:07	0	0.777	0.000	
OF40-	OUTFALL	1.152	1.152	0	09:05	1.85	1.85	0.000	
OF41-	OUTFALL	0.960	0.960	0	09:05	1.54	1.54	0.000	
OF42-	OUTFALL	2.565	2.565	0	09:05	4.2	4.2	0.000	
OF43-	OUTFALL	3.974	3.974	0	09:05	6.5	6.5	0.000	
OF44-	OUTFALL	3.413	3.413	0	09:05	5.58	5.58	0.000	
OF45-	OUTFALL	3.352	3.352	0	09:05	5.48	5.48	0.000	
OF46-	OUTFALL	5.029	5.029	0	09:05	8.23	8.23	0.000	
OF47-	OUTFALL	5.481	5.481	0	09:05	8.97	8.97	0.000	
OF48-	OUTFALL	0.587	0.587	0	09:15	1.16	1.16	0.000	
OF49-	OUTFALL	2.607	2.607	0	09:05	4.27	4.27	0.000	
OF4-M	OUTFALL	0.209	0.401	0	09:05	0.332	0.741	0.000	
OF50	OUTFALL	1.924	1.924	0	09:05	3.15	3.15	0.000	
OF51	OUTFALL	1.749	1.749	0	09:05	2.81	2.81	0.000	
OF52	OUTFALL	2.148	2.148	0	09:05	3.45	3.45	0.000	
OF53	OUTFALL	4.089	4.089	0	09:05	6.69	6.69	0.000	
OF54	OUTFALL	3.410	3.410	0	09:05	5.58	5.58	0.000	
OF55	OUTFALL	1.078	1.078	0	09:05	1.73	1.73	0.000	
OF56	OUTFALL	3.006	3.006	0	09:05	4.83	4.83	0.000	
OF57	OUTFALL	1.132	1.132	0	09:05	1.82	1.82	0.000	
OF58	OUTFALL	3.248	3.248	0	09:05	5.52	5.52	0.000	
OF59	OUTFALL	1.240	1.240	0	09:05	1.93	1.93	0.000	
OF5-M	OUTFALL	0.493	0.509	0	09:05	0.783	0.924	0.000	

OF6-	OUTFALL	0.171	0.238	0	09:05	0.271	0.802	0.000	
OF60	OUTFALL	3.333	3.333	0	09:05	5.48	5.48	0.000	
OF61	OUTFALL	0.195	0.195	0	09:15	0.386	0.386	0.000	
OF62	OUTFALL	0.054	0.054	0	09:05	0.139	0.139	0.000	
OF7-M	OUTFALL	0.000	0.821	0	09:09	0	2.55	0.000	
OF8-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF9-M	OUTFALL	0.220	1.705	0	09:06	0.35	3.6	0.000	
Gill_RD_Pond	STORAGE	0.167	0.587	0	09:07	0.266	1.81	5.355	
Rice_Pond	STORAGE	0.224	1.493	0	09:15	0.371	6.69	0.006	

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
CB15	JUNCTION	0.12	0.157	0.943
CB17	JUNCTION	0.07	0.112	2.373
CB19	JUNCTION	0.07	0.355	0.845
CB20	JUNCTION	0.11	0.466	0.954
CB30_1	JUNCTION	0.38	1.270	0.000
CB31	JUNCTION	0.54	0.830	0.000
CB32	JUNCTION	0.63	0.920	0.000
CB33	JUNCTION	0.72	1.090	0.000
CB41	JUNCTION	0.93	0.550	0.000
CB42	JUNCTION	1.01	0.776	0.004
CB-58	JUNCTION	0.58	1.250	0.250
CBMH_1	JUNCTION	1.58	1.166	0.000
DICBMH42	JUNCTION	14.84	0.200	1.425
J101	JUNCTION	1.96	1.000	0.000
J102	JUNCTION	1.13	1.286	0.000
J110	JUNCTION	2.02	1.118	0.027
J113	JUNCTION	1.98	1.000	0.000
J125	JUNCTION	0.32	0.123	2.872
J91	JUNCTION	19.96	0.911	3.156
J98	JUNCTION	1.65	0.590	0.000

MH_38	JUNCTION	0.15	0.061	2.136
MH_56	JUNCTION	0.38	0.530	0.000
MH_68	JUNCTION	2.63	0.149	1.118
MH1	JUNCTION	0.28	1.999	0.591
MH1_Main	JUNCTION	0.39	1.292	0.178
MH11__S	JUNCTION	0.10	0.321	1.379
MH14	JUNCTION	0.09	0.104	4.306
MH15	JUNCTION	0.19	0.330	4.590
MH15_Main	JUNCTION	0.61	0.073	1.877
MH2	JUNCTION	0.11	1.802	0.548
MH2_Main	JUNCTION	0.56	1.107	0.000
MH21	JUNCTION	0.62	1.680	0.000
MH22	JUNCTION	0.65	1.510	0.000
MH23	JUNCTION	0.76	1.569	0.001
MH24	JUNCTION	0.88	1.258	0.397
MH25-1	JUNCTION	0.17	0.091	1.999
MH3	JUNCTION	0.10	1.354	1.216
MH4_Main	JUNCTION	0.65	0.345	1.175
MH5_Main	JUNCTION	1.34	1.431	0.149
MH6_Main	JUNCTION	1.55	0.468	2.112
MH8_Main	JUNCTION	1.28	1.095	0.144
MJ105	JUNCTION	14.79	1.453	0.134
MJ146	JUNCTION	0.64	1.700	0.000

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CMS	Time of Max Occurrence days hr:min	Total Flood Volume 10^6 ltr	Maximum Ponded Depth Meters
CB30_1	0.01	0.017	0 09:46	0.000	0.000
CB31	0.40	0.086	0 09:54	0.036	0.000
CB32	0.01	0.044	0 09:57	0.001	0.000
CB33	0.01	0.125	0 09:52	0.002	0.000
CB41	0.58	0.045	0 09:28	0.064	0.000

CBMH_1	0.95	1.329	0	09:05	1.201	0.000
J101	1.61	0.376	0	09:18	0.415	0.000
J102	0.69	0.155	0	09:13	0.223	0.000
J113	0.45	0.018	0	08:59	0.006	0.000
J98	0.64	0.013	0	09:19	0.004	0.000
MH_56	0.11	0.064	0	09:12	0.008	0.000
MH2_Main	0.01	0.203	0	09:54	0.002	0.000
MH21	0.02	0.103	0	09:19	0.002	0.000
MH22	0.01	0.022	0	09:07	0.000	0.000
MJ146	0.01	0.249	0	09:10	0.000	0.000

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Storage Volume Summary
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Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CMS
Gill_RD_Pond	0.485	16	0	0	0.857	29	0 09:54	0.088
Rice_Pond	3.527	25	0	0	5.010	36	0 10:31	0.175

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Outfall Loading Summary
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Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
OF10-	99.90	0.022	0.597	0.947
OF11-M	0.00	0.000	0.000	0.000
OF12-	93.55	0.006	0.102	0.199
OF13-	99.72	0.033	0.168	1.444
OF14-	99.98	0.057	0.175	3.330
OF15-	99.96	0.062	1.712	2.718
OF16-	99.69	0.022	0.196	0.947

OF17-	99.73	0.085	1.253	3.407
OF18-M	99.34	0.002	0.065	0.103
OF19-	99.80	0.018	0.257	0.875
OF1-M	92.34	0.052	0.363	1.779
OF20-	92.54	0.103	0.506	3.772
OF21-	99.90	0.022	0.595	0.945
OF22_M	0.00	0.000	0.000	0.000
OF23-	99.95	0.044	1.214	1.928
OF24-	99.97	0.182	1.854	6.500
OF25-	96.93	0.045	0.187	1.834
OF26-M	99.77	0.062	0.764	2.233
OF27-1	99.83	0.036	0.292	1.687
OF27-M	99.90	0.033	0.665	1.380
OF28-	99.95	0.030	0.881	1.384
OF29-	0.00	0.000	0.000	0.000
OF2-M	96.84	0.089	0.748	3.268
OF2-M-	96.39	0.010	0.150	0.359
OF3-	99.74	0.058	0.314	2.563
OF30-M	99.66	0.023	0.368	0.923
OF31-M	99.68	0.027	0.329	1.067
OF32-M	79.49	0.127	1.735	3.814
OF33-	99.56	0.067	0.488	2.601
OF34-	99.96	0.079	2.290	3.747
OF35-	12.04	0.043	0.089	0.166
OF36-	99.94	0.016	0.410	0.715
OF37-	12.81	0.166	0.344	0.681
OF38-	12.49	0.097	0.210	0.391
OF39-	99.95	0.048	1.402	2.252
OF3-M	93.48	0.022	0.442	0.777
OF40-	99.94	0.039	1.152	1.850
OF41-	99.93	0.033	0.960	1.542
OF42-	99.96	0.089	2.565	4.197
OF43-	99.97	0.138	3.974	6.502
OF44-	99.97	0.118	3.413	5.585
OF45-	99.97	0.116	3.352	5.484
OF46-	99.98	0.174	5.029	8.228
OF47-	99.98	0.190	5.481	8.968
OF48-	12.82	0.283	0.587	1.163
OF49-	99.96	0.090	2.607	4.266
OF4-M	99.78	0.018	0.401	0.741
OF50	99.95	0.067	1.924	3.148

OF51	99.96	0.059	1.749	2.809
OF52	99.97	0.073	2.148	3.449
OF53	99.97	0.142	4.089	6.691
OF54	99.97	0.118	3.410	5.580
OF55	99.94	0.037	1.078	1.731
OF56	99.98	0.102	3.006	4.827
OF57	99.94	0.038	1.132	1.818
OF58	99.99	0.123	3.248	5.517
OF59	99.97	0.041	1.240	1.929
OF5-M	99.87	0.022	0.509	0.924
OF6-	99.77	0.018	0.238	0.802
OF60	99.99	0.118	3.333	5.482
OF61	12.81	0.094	0.195	0.386
OF62	93.89	0.004	0.054	0.139
OF7-M	96.62	0.071	0.821	2.550
OF8-	0.00	0.000	0.000	0.000
OF9-M	99.79	0.090	1.705	3.600
System	85.99	4.293	68.212	160.644

****
Link Flow Summary
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Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
C_dummy	CONDUIT	0.363	0 09:26	7.58	0.04	0.31
C1	CONDUIT	0.488	0 09:13	2.26	0.37	0.42
C100	CONDUIT	1.007	0 09:12	2.04	1.44	0.91
C106	CONDUIT	0.555	0 09:08	1.74	0.92	1.00
C108	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C110	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C111	CONDUIT	0.000	0 00:00	0.00	0.00	0.20
C113	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C114	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C115	CONDUIT	0.000	0 00:00	0.00	0.00	0.00
C116	CONDUIT	0.006	0 09:06	0.23	0.05	0.66

C118	CONDUIT	0.008	0	09:06	0.20	0.04	0.94
C119_1	CONDUIT	0.013	0	09:06	0.19	0.01	0.47
C119_2	CONDUIT	1.006	0	09:14	2.11	1.30	0.91
C123	CONDUIT	0.173	0	09:09	1.45	1.02	0.96
C124	CONDUIT	0.173	0	09:09	1.38	1.43	0.82
C125	CONDUIT	1.172	0	09:14	2.61	0.78	1.00
C126	CONDUIT	1.172	0	09:14	2.39	1.08	1.00
C127	CONDUIT	0.175	0	10:31	1.80	0.43	0.46
C128	CONDUIT	0.175	0	10:32	1.72	0.46	0.48
C129	CONDUIT	0.175	0	10:32	1.73	0.45	0.47
C130	CONDUIT	0.088	0	09:15	1.03	0.53	0.58
C145	CONDUIT	0.091	0	09:08	1.37	1.40	0.89
C147	CONDUIT	0.090	0	09:08	1.45	1.11	0.83
C150	CONDUIT	0.089	0	09:08	1.36	1.28	0.89
C151	CONDUIT	0.003	0	09:09	0.14	0.02	0.29
C156	CONDUIT	0.000	0	00:00	0.00	0.00	0.06
C159	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C160	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C161	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C164	CONDUIT	0.196	0	09:12	3.80	0.28	0.36
C165	CONDUIT	0.000	0	00:00	0.00	0.00	0.22
C167	CONDUIT	0.291	0	09:11	1.60	1.22	0.79
C185	CONDUIT	0.138	0	09:10	1.03	0.74	0.61
C186	CONDUIT	0.137	0	09:11	0.87	0.71	0.70
C187	CONDUIT	0.203	0	09:10	1.16	0.94	0.77
C188	CONDUIT	0.202	0	09:11	1.14	0.94	0.77
C189	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C190	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C193	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C194	CONDUIT	0.001	0	09:21	0.23	0.01	0.49
C2	CONDUIT	0.552	0	09:13	1.61	1.11	1.00
C200-	CONDUIT	0.445	0	09:14	1.60	0.93	1.00
C205	CONDUIT	0.043	0	09:06	0.93	0.28	0.33
C206	CONDUIT	0.043	0	09:06	0.90	0.32	0.36
C207	CONDUIT	0.043	0	09:06	0.77	0.29	0.56
C211	CONDUIT	0.089	0	09:55	0.26	0.02	0.61
C212	CONDUIT	0.088	0	09:54	0.92	0.14	0.23
C213	CONDUIT	0.088	0	09:55	0.95	0.14	0.23
C228	CONDUIT	0.029	0	09:13	0.42	0.25	1.00
C229	CONDUIT	0.000	0	00:00	0.00	0.00	0.03
C230	CONDUIT	0.038	0	09:46	0.56	0.29	1.00

C231	CONDUIT	0.131	0	09:52	1.85	2.13	1.00
C232	CONDUIT	0.089	0	09:54	1.28	0.93	1.00
C233	CONDUIT	0.091	0	09:54	1.28	1.25	1.00
C234	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C235	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C239	CONDUIT	0.045	0	09:28	0.80	0.41	1.00
C240	CONDUIT	0.045	0	09:28	0.64	0.27	1.00
C244	CONDUIT	0.005	0	09:09	0.22	0.04	0.91
C245	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C246	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C248	CONDUIT	1.179	0	09:10	2.67	1.67	1.00
C250	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C251	CONDUIT	0.022	0	09:05	1.11	0.22	0.32
C252	CONDUIT	0.080	0	09:05	1.13	0.69	1.00
C253	CONDUIT	0.195	0	09:05	3.14	2.15	0.82
C254	CONDUIT	0.195	0	09:05	4.05	0.75	0.68
C255	CONDUIT	0.002	0	09:10	0.05	0.01	0.57
C256	CONDUIT	0.097	0	09:05	1.78	0.49	1.00
C257	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C258	CONDUIT	0.139	0	09:05	1.99	3.10	0.96
C259	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C26	CONDUIT	0.075	0	09:05	1.10	0.36	0.46
C260	CONDUIT	0.070	0	09:11	1.12	1.10	0.83
C263	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C269	CONDUIT	0.009	0	09:06	1.23	0.03	0.11
C27	CONDUIT	0.171	0	09:08	1.69	1.07	0.87
C28	CONDUIT	0.245	0	09:08	1.57	0.50	0.54
C281	CONDUIT	0.072	0	09:09	1.15	1.10	0.91
C284	CONDUIT	0.074	0	09:07	1.18	1.30	0.86
C285	CONDUIT	0.002	0	09:06	0.10	0.03	0.42
C288	CONDUIT	0.168	0	09:38	2.39	2.68	0.98
C289	CONDUIT	0.168	0	08:54	1.70	0.67	0.60
C292	CONDUIT	0.168	0	08:54	1.51	0.86	0.66
C293	CONDUIT	0.168	0	08:54	1.83	0.60	0.56
C3	CONDUIT	0.242	0	09:07	1.27	0.48	0.72
C343	CONDUIT	0.133	0	09:16	1.88	3.68	1.00
C344	CONDUIT	0.133	0	09:16	0.83	1.09	1.00
C345	CONDUIT	0.448	0	09:16	2.07	2.15	1.00
C346	CONDUIT	0.552	0	09:16	2.75	1.29	0.70
C347	CONDUIT	0.551	0	09:16	4.58	0.40	0.44
C348	CONDUIT	0.506	0	09:17	3.18	5.02	1.00

C349	CONDUIT	0.210	0	09:08	1.95	0.54	0.81
C350	CONDUIT	0.164	0	09:13	1.57	1.40	0.81
C351	CONDUIT	0.000	0	00:00	0.00	0.00	0.21
C352	CONDUIT	0.082	0	09:09	1.50	0.49	0.50
C353	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C4	CONDUIT	0.088	0	09:15	1.13	0.54	0.49
C437	CONDUIT	0.000	0	00:00	0.00	0.00	0.11
C48	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C5	CONDUIT	0.235	0	09:05	0.46	0.02	0.56
C50	CONDUIT	0.000	0	00:00	0.00	0.00	0.33
C53	CONDUIT	0.358	0	09:05	1.89	0.64	0.78
C54	CONDUIT	0.169	0	09:07	1.14	0.65	0.86
C6	CONDUIT	0.116	0	09:09	0.67	0.09	0.38
C653	CONDUIT	1.149	0	09:09	2.60	1.63	1.00
C655	CONDUIT	0.345	0	09:09	1.48	1.00	1.00
C656	CONDUIT	0.287	0	09:08	1.23	1.25	1.00
C657	CONDUIT	0.000	0	09:10	0.09	0.00	0.03
C658	CONDUIT	1.179	0	09:10	2.67	1.69	1.00
C660	CONDUIT	0.225	0	09:18	1.60	1.01	0.85
C662	CONDUIT	0.214	0	09:17	1.76	7.20	0.71
C663	CONDUIT	0.122	0	09:37	1.48	0.71	1.00
C664	CONDUIT	0.125	0	09:26	1.77	1.46	1.00
C665	CONDUIT	0.013	0	09:46	0.35	0.05	0.53
C666	CONDUIT	1.187	0	09:10	2.75	1.31	0.94
C667	CONDUIT	0.040	0	09:11	0.90	0.10	0.22
C668	CONDUIT	0.101	0	09:09	5.22	0.02	0.09
C669	CONDUIT	0.101	0	09:09	2.98	0.03	0.11
C670	CONDUIT	0.000	0	00:00	0.00	0.00	0.20
C671	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C672	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C673	CONDUIT	0.038	0	09:11	0.93	0.21	0.36
C674	CONDUIT	0.187	0	09:14	3.82	1.20	1.00
C685	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C686	CONDUIT	0.017	0	09:08	1.42	0.06	0.17
C687	CONDUIT	0.017	0	09:08	1.85	0.04	0.14
C688	CONDUIT	0.017	0	09:09	1.09	0.04	0.13
C689	CONDUIT	0.317	0	09:14	1.55	0.72	0.56
C690	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C7	CONDUIT	0.114	0	09:10	1.57	0.06	0.15
C700	CONDUIT	0.214	0	09:18	3.03	5.16	1.00
C701	CONDUIT	0.252	0	09:14	2.23	1.11	0.67

C702	CONDUIT	0.252	0	09:14	3.66	0.41	0.45
C703	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C704	CONDUIT	0.005	0	09:04	0.08	0.02	0.35
C705	CONDUIT	0.041	0	09:09	0.69	0.20	0.26
C707	CONDUIT	0.040	0	09:10	0.73	0.16	0.25
C708	CONDUIT	0.101	0	09:09	1.25	0.23	0.33
C709	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C710	CONDUIT	0.017	0	09:13	1.34	0.20	0.31
C711	CONDUIT	0.017	0	09:13	0.82	0.26	0.67
C712	CONDUIT	0.064	0	09:01	1.30	1.27	1.00
C713	CONDUIT	0.025	0	09:05	0.52	0.53	1.00
C714	CONDUIT	0.133	0	09:16	0.83	1.18	1.00
C715	CONDUIT	0.555	0	09:16	2.06	2.03	0.90
C716	CONDUIT	0.712	0	09:11	2.52	1.37	1.00
C717	CONDUIT	0.359	0	09:15	1.58	0.88	1.00
C718	CONDUIT	0.005	0	09:08	0.07	0.07	1.00
C727	CONDUIT	0.016	0	09:10	1.05	0.03	0.12
C734	CONDUIT	0.316	0	09:13	1.53	0.79	0.56
C735	CONDUIT	0.316	0	09:12	1.45	0.83	0.59
C736	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C737	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C738	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C739	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C740	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C741	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C751	CONDUIT	0.214	0	09:18	2.27	0.35	0.71
C752	CONDUIT	0.191	0	09:28	1.98	1.74	1.00
C753	CONDUIT	0.122	0	09:35	1.73	1.33	1.00
C754	CONDUIT	0.068	0	09:51	1.08	0.73	1.00
C755	CONDUIT	0.032	0	09:10	0.47	0.30	1.00
C756	CONDUIT	0.039	0	09:10	0.72	0.34	0.96
C757	CONDUIT	0.777	0	09:11	1.82	1.08	1.00
C758	CONDUIT	0.102	0	09:08	1.24	0.17	0.28
C759	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C760	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C762	CONDUIT	0.000	0	09:17	0.01	0.00	0.54
C763	CONDUIT	0.506	0	09:17	3.74	0.65	0.79
C764	CONDUIT	0.555	0	09:16	1.96	1.82	1.00
C765	CONDUIT	0.026	0	09:13	0.54	0.70	1.00
C766	CONDUIT	0.027	0	09:13	0.56	1.55	1.00
C767	CONDUIT	1.179	0	09:10	2.67	1.74	1.00

C77	CONDUIT	0.169	0	09:06	1.40	0.66	0.64
C8	CONDUIT	0.260	0	09:18	2.43	0.03	0.17
C80	CONDUIT	0.169	0	09:06	1.50	0.83	0.67
C94	CONDUIT	0.245	0	09:08	1.62	0.61	0.55
CB72	CONDUIT	0.331	0	09:12	2.10	0.81	0.68
MC_C6	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC1	CHANNEL	0.257	0	09:21	0.18	0.01	0.13
MC10	CHANNEL	0.150	0	09:07	0.36	0.00	0.07
MC100	CHANNEL	0.106	0	09:07	0.25	0.00	0.07
MC101	CHANNEL	0.058	0	09:09	0.07	0.00	0.15
MC102	CHANNEL	0.070	0	09:07	0.23	0.00	0.06
MC103	CHANNEL	0.065	0	09:07	0.11	0.00	0.10
MC104	CHANNEL	0.165	0	09:13	0.28	0.00	0.08
MC105	CHANNEL	0.038	0	09:09	0.04	0.00	0.11
MC107	CHANNEL	0.075	0	09:05	0.50	0.00	0.04
MC108	CHANNEL	0.031	0	09:06	0.28	0.00	0.03
MC109	CHANNEL	0.044	0	09:05	0.31	0.00	0.04
MC11	CHANNEL	0.036	0	09:07	0.19	0.00	0.04
MC12	CHANNEL	0.034	0	09:07	0.15	0.00	0.05
MC120	CHANNEL	0.089	0	09:08	0.16	0.00	0.24
MC121	CHANNEL	0.026	0	09:08	0.04	0.00	0.10
MC122	CHANNEL	0.025	0	09:08	0.10	0.00	0.06
MC123	CHANNEL	0.153	0	09:06	0.98	0.01	0.11
MC124	CHANNEL	0.061	0	09:06	0.26	0.00	0.05
MC125	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC126	CHANNEL	0.329	0	09:13	0.25	0.00	0.13
MC128	CHANNEL	0.021	0	09:09	0.02	0.00	0.19
MC129	CHANNEL	0.017	0	09:07	0.12	0.00	0.04
MC13	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC130	CHANNEL	0.040	0	09:09	0.02	0.00	0.30
MC131	CHANNEL	0.240	0	09:09	1.25	0.01	0.11
MC132	CHANNEL	0.185	0	09:09	0.46	0.02	0.25
MC133	CHANNEL	0.113	0	09:09	0.38	0.00	0.06
MC135	CHANNEL	0.024	0	09:05	0.17	0.00	0.05
MC136	CHANNEL	0.414	0	09:08	0.41	0.01	0.11
MC137	CHANNEL	0.031	0	10:07	0.11	0.00	0.06
MC139	CHANNEL	0.130	0	09:12	0.09	0.01	0.13
MC14	CHANNEL	0.509	0	09:06	0.46	0.01	0.12
MC141	CHANNEL	0.223	0	09:06	0.41	0.00	0.09
MC142	CHANNEL	0.096	0	09:07	0.25	0.00	0.07
MC143	CHANNEL	0.123	0	09:09	0.72	0.01	0.11

MC144	CHANNEL	0.132	0	09:09	0.82	0.01	0.12
MC145	CHANNEL	1.531	0	09:07	2.24	0.06	0.25
MC146	CHANNEL	0.210	0	09:07	0.09	0.00	0.32
MC147	CHANNEL	0.097	0	09:13	0.22	0.00	0.08
MC148	CHANNEL	0.215	0	09:05	0.11	0.01	0.57
MC149	CHANNEL	0.000	0	00:00	0.00	0.00	0.19
MC15	CHANNEL	0.061	0	09:08	0.12	0.00	0.08
MC150	CHANNEL	0.116	0	09:18	0.06	0.00	0.16
MC151	CHANNEL	0.026	0	09:13	0.09	0.00	0.06
MC152	CHANNEL	0.031	0	09:06	0.15	0.00	0.04
MC153	CHANNEL	0.063	0	09:07	0.15	0.00	0.15
MC154	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC155	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC156	CHANNEL	0.030	0	09:09	0.05	0.00	0.09
MC157	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC158	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC159	CHANNEL	0.482	0	09:10	0.14	0.01	0.24
MC16	CHANNEL	0.118	0	09:08	0.17	0.00	0.09
MC160	CHANNEL	0.028	0	09:07	0.03	0.00	0.19
MC161	CHANNEL	0.022	0	09:07	0.08	0.00	0.05
MC162	CHANNEL	0.006	0	09:14	0.01	0.00	0.16
MC163	CHANNEL	0.005	0	09:14	0.04	0.00	0.05
MC164	CHANNEL	0.002	0	09:09	0.03	0.00	0.09
MC165	CHANNEL	0.465	0	09:07	0.51	0.05	0.41
MC166	CHANNEL	0.003	0	09:09	0.09	0.00	0.06
MC167	CHANNEL	0.003	0	09:09	0.01	0.00	0.15
MC168	CHANNEL	0.590	0	09:50	0.17	0.10	0.92
MC169	CHANNEL	0.701	0	09:16	0.78	0.00	0.11
MC17	CHANNEL	0.113	0	09:08	0.20	0.00	0.08
MC170	CHANNEL	0.029	0	09:41	0.02	0.00	0.16
MC171	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC172	CHANNEL	0.621	0	09:07	1.09	0.03	0.22
MC173	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC174	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC175	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC176	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC177	CHANNEL	0.299	0	09:18	0.06	0.00	0.30
MC178	CHANNEL	0.197	0	09:06	0.38	0.00	0.15
MC179	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC18	CHANNEL	0.008	0	09:07	0.04	0.00	0.04
MC180	CHANNEL	0.000	0	00:00	0.00	0.00	0.15

MC181	CHANNEL	0.109	0	09:06	0.10	0.00	0.16
MC182_1	CHANNEL	0.210	0	09:08	0.16	0.00	0.14
MC182_2	CHANNEL	0.163	0	09:13	0.37	0.00	0.07
MC182_3	CHANNEL	0.168	0	09:12	0.13	0.00	0.13
MC182_5	CHANNEL	0.263	0	09:05	0.27	0.00	0.15
MC183	CHANNEL	0.431	0	09:13	0.19	0.01	0.28
MC184	CHANNEL	0.572	0	09:08	0.52	0.01	0.17
MC185	CHANNEL	0.061	0	09:05	0.26	0.00	0.19
MC186	CHANNEL	0.083	0	09:06	0.70	0.00	0.10
MC187	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC188	CHANNEL	0.779	0	09:12	0.35	0.01	0.21
MC189	CHANNEL	0.067	0	09:09	0.10	0.00	0.40
MC19	CHANNEL	0.056	0	09:06	0.09	0.00	0.09
MC190	CHANNEL	0.023	0	09:09	0.03	0.00	0.34
MC191	CHANNEL	0.000	0	00:00	0.00	0.00	0.17
MC192	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC193	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC194_1	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC194_2	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC195	CHANNEL	0.006	0	09:08	0.03	0.00	0.05
MC196	CHANNEL	0.071	0	09:05	0.05	0.01	0.75
MC197	CHANNEL	0.262	0	09:05	0.20	0.04	0.56
MC198	CHANNEL	0.024	0	09:06	0.08	0.01	0.22
MC199	CHANNEL	0.073	0	09:06	0.27	0.01	0.20
MC2	CHANNEL	0.106	0	09:11	0.15	0.00	0.11
MC20	CHANNEL	0.118	0	09:09	0.20	0.00	0.08
MC200	CHANNEL	0.286	0	09:07	0.64	0.04	0.25
MC201	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC202	CHANNEL	0.084	0	09:07	0.06	0.01	0.54
MC203	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC204	CHANNEL	0.000	0	00:00	0.00	0.00	0.11
MC205	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC206	CHANNEL	0.371	0	09:17	0.31	0.01	0.13
MC207	CHANNEL	0.508	0	09:07	0.26	0.07	0.77
MC208	CHANNEL	1.134	0	09:12	0.57	0.95	0.52
MC209	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC21	CHANNEL	0.221	0	09:07	0.89	0.00	0.05
MC210	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC211	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC212	CHANNEL	1.056	0	09:09	0.74	0.15	0.43
MC213	CHANNEL	0.130	0	09:09	0.14	0.00	0.11

MC214_1	CHANNEL	0.328	0	09:16	0.27	0.01	0.12
MC214_2	CHANNEL	0.057	0	09:18	0.11	0.00	0.08
MC215	CHANNEL	0.159	0	09:13	0.13	0.00	0.13
MC216	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC217	CHANNEL	0.000	0	00:00	0.00	0.00	0.09
MC218	CHANNEL	0.000	0	00:00	0.00	0.00	0.19
MC219	CHANNEL	0.126	0	09:05	0.24	0.00	0.08
MC22	CHANNEL	0.033	0	09:09	0.19	0.00	0.04
MC220	CHANNEL	0.413	0	09:05	0.23	0.04	0.63
MC221	CHANNEL	0.005	0	09:08	0.01	0.00	0.19
MC223	CHANNEL	0.004	0	09:08	0.12	0.00	0.05
MC224	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC225	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC226	CHANNEL	0.173	0	09:13	0.17	0.00	0.12
MC227	CHANNEL	0.350	0	09:17	0.19	0.02	0.16
MC228	CHANNEL	0.094	0	09:13	0.13	0.00	0.09
MC229	CHANNEL	0.030	0	10:17	0.11	0.00	0.07
MC23	CHANNEL	0.179	0	09:08	0.47	0.02	0.17
MC230	CHANNEL	0.367	0	09:12	0.45	0.00	0.10
MC231	CHANNEL	0.231	0	09:50	0.12	0.02	0.56
MC232	CHANNEL	0.122	0	09:11	0.23	0.00	0.08
MC24	CHANNEL	1.735	0	09:08	0.99	0.01	0.15
MC25	CHANNEL	0.036	0	09:06	0.13	0.00	0.05
MC26	CHANNEL	0.013	0	09:06	0.04	0.00	0.06
MC27	CHANNEL	0.263	0	09:11	0.50	0.00	0.08
MC28	CHANNEL	0.748	0	09:24	0.81	0.00	0.11
MC29	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC3	CHANNEL	0.821	0	09:09	0.71	0.01	0.12
MC30	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC31	CHANNEL	0.026	0	09:06	0.06	0.00	0.15
MC32	CHANNEL	0.131	0	09:10	0.23	0.00	0.08
MC33	CHANNEL	0.212	0	09:11	0.34	0.00	0.10
MC34	CHANNEL	0.089	0	09:09	0.37	0.00	0.05
MC35	CHANNEL	0.061	0	09:15	0.08	0.00	0.15
MC36	CHANNEL	0.062	0	09:13	0.12	0.00	0.08
MC37	CHANNEL	0.149	0	09:06	0.60	0.01	0.14
MC38	CHANNEL	0.684	0	09:23	0.58	0.01	0.12
MC39	CHANNEL	0.567	0	09:09	0.26	0.01	0.22
MC4	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC40	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC41	CHANNEL	0.040	0	09:14	0.04	0.00	0.16

MC42	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC43	CHANNEL	0.000	0	00:00	0.00	0.00	0.15
MC44	CHANNEL	0.007	0	09:20	0.02	0.00	0.07
MC45	CHANNEL	0.019	0	09:08	0.06	0.00	0.06
MC46	CHANNEL	0.027	0	09:08	0.07	0.00	0.08
MC47	CHANNEL	0.633	0	09:22	0.48	0.01	0.13
MC48	CHANNEL	0.000	0	00:00	0.00	0.00	0.50
MC49	CHANNEL	0.000	0	00:00	0.00	0.00	0.30
MC5	CHANNEL	0.074	0	09:05	0.25	0.00	0.06
MC50	CHANNEL	0.013	0	09:18	0.04	0.00	0.06
MC51	CHANNEL	0.015	0	09:06	0.05	0.00	0.06
MC52	CHANNEL	0.015	0	09:06	0.16	0.00	0.03
MC53	CHANNEL	0.023	0	09:07	0.07	0.00	0.08
MC54	CHANNEL	0.041	0	09:09	0.10	0.00	0.07
MC55	CHANNEL	0.013	0	09:15	0.01	0.00	0.17
MC56	CHANNEL	0.001	0	09:08	0.02	0.00	0.02
MC57	CHANNEL	0.019	0	09:15	0.04	0.00	0.07
MC58	CHANNEL	0.016	0	09:13	0.04	0.00	0.17
MC59	CHANNEL	0.028	0	09:07	0.11	0.00	0.05
MC6	CHANNEL	0.442	0	09:07	1.09	0.02	0.17
MC62	CHANNEL	0.000	0	00:00	0.00	0.00	0.19
MC64	CHANNEL	0.405	0	09:10	0.30	0.00	0.17
MC65	CHANNEL	0.005	0	09:08	0.02	0.00	0.06
MC66	CHANNEL	0.013	0	09:08	0.12	0.00	0.10
MC67	CHANNEL	0.005	0	09:08	0.01	0.00	0.22
MC68	CHANNEL	0.125	0	09:09	0.18	0.00	0.09
MC69	CHANNEL	0.114	0	09:07	0.09	0.00	0.25
MC7	CHANNEL	0.485	0	09:08	0.21	0.13	0.70
MC70	CHANNEL	0.192	0	09:08	0.44	0.00	0.07
MC71	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC72	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC73	CHANNEL	0.613	0	09:21	0.56	0.01	0.12
MC74	CHANNEL	0.066	0	09:25	0.07	0.00	0.14
MC75	CHANNEL	0.557	0	09:18	0.41	0.01	0.13
MC76	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC77	CHANNEL	0.025	0	09:07	0.09	0.00	0.05
MC78	CHANNEL	0.083	0	09:07	0.08	0.00	0.19
MC79	CHANNEL	0.075	0	09:09	0.22	0.00	0.06
MC8	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC80	CHANNEL	0.341	0	09:12	0.32	0.31	0.41
MC82	CHANNEL	0.000	0	00:00	0.00	0.00	0.14

MC83	CHANNEL	0.000	0	00:00	0.00	0.00	0.14
MC84	CHANNEL	0.186	0	09:07	0.55	0.00	0.06
MC85	CHANNEL	0.044	0	09:08	0.08	0.00	0.08
MC86	CHANNEL	0.280	0	09:08	1.24	0.01	0.13
MC87	CHANNEL	0.182	0	09:07	0.18	0.00	0.17
MC89	CHANNEL	0.066	0	09:09	0.07	0.00	0.11
MC9	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC90	CHANNEL	0.047	0	09:09	0.15	0.00	0.06
MC91	CHANNEL	0.043	0	09:14	0.16	0.00	0.05
MC92	CHANNEL	0.070	0	09:08	0.28	0.00	0.05
MC93	CHANNEL	0.042	0	09:08	0.24	0.00	0.04
MC97	CHANNEL	0.039	0	09:07	0.22	0.00	0.04
MC98	CHANNEL	0.075	0	09:07	0.42	0.00	0.04
MC99	CHANNEL	0.012	0	09:07	0.05	0.00	0.05
MJ-C5	CONDUIT	0.121	0	09:11	0.51	0.58	0.63
MJ-C6	CONDUIT	0.118	0	09:15	0.56	0.02	0.17
MJ-C7	CONDUIT	0.109	0	09:21	0.50	0.10	0.30
MJ-C8	CONDUIT	0.109	0	09:22	0.98	0.03	0.18
OL5	ORIFICE	0.088	0	09:54			
OL1	DUMMY	0.175	0	10:31			
OL10	DUMMY	0.072	0	09:09			
OL11	DUMMY	0.196	0	09:12			
OL12	DUMMY	0.164	0	09:12			
OL13	DUMMY	0.164	0	09:26			
OL14	DUMMY	0.316	0	09:10			
OL15	DUMMY	0.286	0	09:07			
OL16	DUMMY	0.021	0	09:08			
OL17	DUMMY	0.054	0	09:07			
OL18	DUMMY	0.074	0	09:07			
OL19	DUMMY	0.138	0	09:10			
OL2	DUMMY	0.040	0	09:05			
OL20	DUMMY	0.043	0	09:05			
OL21	DUMMY	0.000	0	00:00			
OL22	DUMMY	0.004	0	09:08			
OL23	DUMMY	0.157	0	09:11			
OL24	DUMMY	0.011	0	09:05			
OL25	DUMMY	0.316	0	09:50			
OL26	DUMMY	0.032	0	09:46			
OL27	DUMMY	0.219	0	09:14			
OL28	DUMMY	0.316	0	09:17			
OL29	DUMMY	0.102	0	09:08			

OL3	DUMMY	0.277	0	09:08
OL30	DUMMY	0.000	0	00:00
OL31	DUMMY	0.017	0	09:08
OL32	DUMMY	0.164	0	09:09
OL33	DUMMY	0.000	0	00:00
OL34	DUMMY	0.316	0	09:12
OL35	DUMMY	0.017	0	09:13
OL36	DUMMY	0.029	0	09:18
OL37	DUMMY	0.310	0	09:19
OL38	DUMMY	0.316	0	09:13
OL39	DUMMY	0.021	0	09:09
OL4	DUMMY	0.011	0	09:06
OL40	DUMMY	0.069	0	09:07
OL41	DUMMY	0.000	0	00:00
OL42	DUMMY	0.129	0	09:09
OL43	DUMMY	0.000	0	00:00
OL44	DUMMY	0.000	0	00:00
OL45	DUMMY	0.073	0	09:13
OL46	DUMMY	0.087	0	09:09
OL47	DUMMY	0.039	0	09:09
OL48	DUMMY	0.000	0	00:00
OL49	DUMMY	0.000	0	00:00
OL50	DUMMY	0.001	0	09:15
OL51	DUMMY	0.100	0	09:08
OL52	DUMMY	0.070	0	09:08
OL53	DUMMY	0.082	0	09:09
OL6	DUMMY	0.009	0	09:05
OL7	DUMMY	0.155	0	09:09
OL8	DUMMY	0.006	0	09:09
OL9	DUMMY	0.316	0	09:07

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Flow Classification Summary
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	Adjusted	Fraction of Time in Flow Class							
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl

C_dummy	1.00	0.00	0.00	0.00	0.08	0.92	0.00	0.00	0.01	0.00
C1	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.56	0.00
C100	1.00	0.00	0.00	0.00	0.78	0.00	0.00	0.22	0.00	0.00
C106	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.94	0.00
C108	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C110	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C111	1.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C113	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C114	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C115	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C116	1.00	0.66	0.05	0.00	0.29	0.00	0.00	0.00	0.52	0.00
C118	1.00	0.39	0.23	0.00	0.38	0.00	0.00	0.00	0.43	0.00
C119_1	1.00	0.46	0.16	0.00	0.38	0.00	0.00	0.00	0.43	0.00
C119_2	1.00	0.00	0.00	0.00	0.74	0.00	0.00	0.26	0.00	0.00
C123	1.00	0.00	0.00	0.00	0.68	0.00	0.00	0.32	0.17	0.00
C124	1.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50	0.00	0.00
C125	1.00	0.00	0.00	0.00	0.74	0.01	0.00	0.24	0.00	0.00
C126	1.00	0.00	0.00	0.00	0.75	0.00	0.00	0.25	0.00	0.00
C127	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C128	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C129	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.13	0.00
C130	1.00	0.00	0.00	0.00	0.40	0.00	0.00	0.60	0.20	0.00
C145	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C147	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C150	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C151	1.00	0.81	0.05	0.00	0.13	0.00	0.00	0.00	0.60	0.00
C156	1.00	0.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C159	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C160	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C161	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C164	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.32	0.00
C165	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C167	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.03	0.00
C185	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.92	0.00	0.00
C186	1.00	0.00	0.00	0.00	0.35	0.00	0.00	0.65	0.04	0.00
C187	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.86	0.00
C188	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C189	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C190	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C193	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C194	1.00	0.21	0.01	0.00	0.16	0.00	0.00	0.62	0.05	0.00

C2	1.00	0.00	0.00	0.00	0.68	0.00	0.00	0.31	0.36	0.00
C200-	1.00	0.00	0.00	0.00	0.06	0.12	0.00	0.83	0.03	0.00
C205	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C206	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C207	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.01	0.00
C211	1.00	0.00	0.22	0.00	0.77	0.00	0.01	0.00	0.00	0.00
C212	1.00	0.23	0.00	0.00	0.27	0.00	0.00	0.50	0.00	0.00
C213	1.00	0.23	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
C228	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.84	0.00
C229	1.00	0.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C230	1.00	0.00	0.88	0.00	0.12	0.00	0.00	0.00	0.58	0.00
C231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
C232	1.00	0.44	0.31	0.00	0.26	0.00	0.00	0.00	0.53	0.00
C233	1.00	0.00	0.44	0.00	0.56	0.00	0.00	0.00	0.27	0.00
C234	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C235	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C239	1.00	0.22	0.00	0.00	0.20	0.00	0.00	0.58	0.56	0.00
C240	1.00	0.22	0.00	0.00	0.13	0.00	0.00	0.65	0.00	0.00
C244	1.00	0.22	0.00	0.00	0.13	0.00	0.00	0.64	0.01	0.00
C245	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C246	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C248	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.00	0.00
C250	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C251	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C252	1.00	0.00	0.00	0.00	0.02	0.07	0.00	0.91	0.03	0.00
C253	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.01	0.00
C254	1.00	0.00	0.00	0.00	0.00	0.01	0.00	0.99	0.00	0.00
C255	1.00	0.22	0.01	0.00	0.01	0.00	0.00	0.76	0.00	0.00
C256	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C257	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C258	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C259	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	1.00	0.00	0.00	0.00	0.05	0.01	0.00	0.95	0.02	0.00
C260	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C263	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C269	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C27	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C28	1.00	0.00	0.00	0.00	0.84	0.16	0.00	0.00	0.92	0.00
C281	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C284	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.99	0.00	0.00
C285	1.00	0.21	0.01	0.00	0.08	0.00	0.00	0.70	0.02	0.00

C288	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C289	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C292	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C293	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.34	0.00
C3	1.00	0.00	0.00	0.00	0.47	0.01	0.00	0.51	0.27	0.00
C343	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.90	0.01	0.00
C344	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.89	0.00
C345	1.00	0.00	0.00	0.00	0.31	0.00	0.00	0.69	0.00	0.00
C346	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C347	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.32	0.00
C348	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
C349	1.00	0.00	0.00	0.00	0.97	0.02	0.00	0.01	0.96	0.00
C350	1.00	0.00	0.00	0.00	0.52	0.48	0.00	0.00	0.01	0.00
C351	1.00	0.81	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C352	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.21	0.00
C353	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C437	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C48	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.97	0.00
C50	1.00	0.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C53	1.00	0.00	0.00	0.00	0.03	0.06	0.00	0.91	0.03	0.00
C54	1.00	0.00	0.00	0.00	0.06	0.00	0.00	0.94	0.01	0.00
C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C653	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C655	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.00	0.00
C656	1.00	0.00	0.00	0.00	0.45	0.00	0.00	0.55	0.00	0.00
C657	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.62	0.00
C658	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C660	1.00	0.00	0.00	0.00	0.14	0.38	0.00	0.47	0.31	0.00
C662	1.00	0.00	0.01	0.00	0.90	0.09	0.00	0.00	0.00	0.00
C663	1.00	0.00	0.00	0.00	0.17	0.00	0.00	0.82	0.02	0.00
C664	1.00	0.00	0.00	0.00	0.37	0.63	0.00	0.00	0.90	0.00
C665	1.00	0.00	0.93	0.00	0.07	0.00	0.00	0.00	0.61	0.00
C666	1.00	0.00	0.00	0.00	0.03	0.96	0.00	0.00	0.23	0.00
C667	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C668	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C669	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.07	0.00
C670	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C671	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C672	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C673	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.89	0.04	0.00
C674	1.00	0.03	0.00	0.00	0.17	0.80	0.00	0.00	0.07	0.00
C685	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C686	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C687	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C688	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.81	0.00
C689	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C690	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C7	1.00	0.00	0.00	0.00	0.58	0.42	0.00	0.00	0.02	0.00
C700	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
C701	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C702	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.07	0.00
C703	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C704	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.08	0.00
C705	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C707	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C708	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C709	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C710	1.00	0.00	0.00	0.00	0.00	0.02	0.00	0.97	0.01	0.00
C711	1.00	0.01	0.00	0.00	0.20	0.00	0.00	0.79	0.08	0.00
C712	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
C713	1.00	0.01	0.00	0.00	0.34	0.00	0.00	0.65	0.08	0.00
C714	1.00	0.00	0.02	0.00	0.16	0.00	0.82	0.00	0.00	0.00
C715	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C716	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.98	0.00	0.00
C717	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.00	0.00
C718	1.00	0.02	0.75	0.00	0.23	0.00	0.00	0.00	0.57	0.00
C727	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C734	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C735	1.00	0.00	0.00	0.00	0.08	0.00	0.00	0.92	0.00	0.00
C736	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C737	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C739	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C740	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C741	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C751	1.00	0.01	0.00	0.00	0.09	0.18	0.00	0.73	0.10	0.00
C752	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
C753	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.00	0.00
C754	1.00	0.00	0.00	0.00	0.82	0.18	0.00	0.00	0.92	0.00
C755	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.03	0.00

C756	1.00	0.00	0.00	0.00	0.14	0.00	0.00	0.86	0.00	0.00
C757	1.00	0.01	0.00	0.00	0.03	0.00	0.00	0.96	0.00	0.00
C758	1.00	0.01	0.00	0.00	0.18	0.81	0.00	0.00	0.01	0.00
C759	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C760	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C762	1.00	0.83	0.12	0.00	0.05	0.00	0.00	0.00	0.61	0.00
C763	1.00	0.00	0.07	0.00	0.69	0.23	0.00	0.00	0.00	0.00
C764	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
C765	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.87	0.00
C766	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.86	0.00
C767	1.00	0.01	0.00	0.00	0.04	0.00	0.00	0.95	0.00	0.00
C77	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C8	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00
C80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C94	1.00	0.00	0.00	0.00	0.82	0.18	0.00	0.00	0.47	0.00
CB72	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC_C6	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.53	0.00
MC10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC100	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC101	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC102	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.10	0.00
MC103	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC104	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC105	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.21	0.00
MC107	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.91	0.00
MC108	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.62	0.00
MC109	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.79	0.00
MC11	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC12	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC120	1.00	0.00	0.05	0.00	0.95	0.00	0.00	0.00	0.87	0.00
MC121	1.00	0.00	0.05	0.00	0.95	0.00	0.00	0.00	0.87	0.00
MC122	1.00	0.00	0.05	0.00	0.95	0.00	0.00	0.00	0.87	0.00
MC123	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.00	0.00
MC124	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC125	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC126	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MC128	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC129	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC130	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.98	0.00

MC131	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.12	0.00
MC132	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC133	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.78	0.00
MC135	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.70	0.00
MC136	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.09	0.00
MC137	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC139	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.27	0.00
MC14	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.77	0.00
MC141	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.75	0.00
MC142	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC143	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.08	0.00
MC144	1.00	0.00	0.00	0.00	0.17	0.83	0.00	0.00	0.12	0.00
MC145	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.19	0.00
MC146	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.31	0.00
MC147	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC148	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC149	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC150	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC151	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.66	0.00
MC152	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.39	0.00
MC153	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00
MC154	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC155	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC156	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC157	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC158	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC159	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC16	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC160	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC161	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC162	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC163	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC164	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC165	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.46	0.00
MC166	1.00	0.00	0.01	0.00	0.93	0.06	0.00	0.00	0.90	0.00
MC167	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC168	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.36	0.00
MC169	1.00	0.22	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00
MC17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC170	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.39	0.00

MC171	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC172	1.00	0.00	0.00	0.00	0.76	0.24	0.00	0.00	0.97	0.00
MC173	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC174	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC175	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC176	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC177	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.35	0.00
MC178	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC179	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC18	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.61	0.00
MC180	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC181	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC182_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.75	0.00
MC182_2	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.01	0.00
MC182_3	1.00	0.01	0.21	0.00	0.79	0.00	0.00	0.00	0.00	0.00
MC182_5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC183	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.07	0.00
MC184	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.82	0.00
MC185	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC186	1.00	0.00	0.00	0.00	0.84	0.16	0.00	0.00	0.93	0.00
MC187	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC188	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC189	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.97	0.00
MC19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC190	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC191	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC192	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC193	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_1	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_2	1.00	0.74	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC195	1.00	0.00	0.74	0.00	0.26	0.00	0.00	0.00	0.61	0.00
MC196	1.00	0.00	0.19	0.00	0.81	0.00	0.00	0.00	0.56	0.00
MC197	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.52	0.00
MC198	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC199	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC200	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC201	1.00	0.86	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC202	1.00	0.01	0.85	0.00	0.14	0.00	0.00	0.00	0.62	0.00
MC203	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC204	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC205	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC206	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.62	0.00
MC207	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.58	0.00
MC208	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC209	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC21	1.00	0.20	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
MC210	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC211	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC212	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.79	0.00
MC213	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC214_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC214_2	1.00	0.00	0.04	0.00	0.95	0.00	0.00	0.00	0.93	0.00
MC215	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC216	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC217	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC218	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC219	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.08	0.00
MC22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC220	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.87	0.00
MC221	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC223	1.00	0.00	0.00	0.00	0.76	0.23	0.00	0.00	0.90	0.00
MC224	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC225	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC226	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC227	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.00
MC228	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.18	0.00
MC229	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.38	0.00
MC23	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.70	0.00
MC230	1.00	0.00	0.01	0.00	0.98	0.00	0.00	0.00	0.91	0.00
MC231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC232	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC24	1.00	0.20	0.00	0.00	0.79	0.01	0.00	0.00	0.00	0.00
MC25	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC26	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC27	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.03	0.00
MC28	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.02	0.00
MC29	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
MC30	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00

MC32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC34	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC35	1.00	0.00	0.11	0.00	0.89	0.00	0.00	0.00	0.73	0.00
MC36	1.00	0.00	0.11	0.00	0.89	0.00	0.00	0.00	0.00	0.00
MC37	1.00	0.00	0.00	0.00	0.35	0.65	0.00	0.00	0.33	0.00
MC38	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.25	0.00
MC39	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.45	0.00
MC4	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC40	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC41	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC42	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC43	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC44	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.62	0.00
MC45	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.60	0.00
MC46	1.00	0.00	0.20	0.00	0.80	0.00	0.00	0.00	0.58	0.00
MC47	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MC48	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC49	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC50	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC51	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC52	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC53	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC54	1.00	0.00	0.15	0.00	0.85	0.00	0.00	0.00	0.05	0.00
MC55	1.00	0.00	0.15	0.00	0.85	0.00	0.00	0.00	0.68	0.00
MC56	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.61	0.00
MC57	1.00	0.00	0.15	0.00	0.85	0.00	0.00	0.00	0.68	0.00
MC58	1.00	0.00	0.15	0.00	0.85	0.00	0.00	0.00	0.00	0.00
MC59	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC6	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.20	0.00
MC62	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC64	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC65	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC66	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC67	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC68	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC69	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27	0.00
MC7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC70	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC71	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC72	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC73	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC74	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.33	0.00
MC75	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC76	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC77	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.15	0.00
MC78	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC79	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC8	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC80	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC82	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC83	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC84	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.76	0.00
MC85	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC86	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.11	0.00
MC87	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC89	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC9	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC90	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC91	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.08	0.00
MC92	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC93	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC97	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.15	0.00
MC98	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.73	0.00
MC99	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MJ-C5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MJ-C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MJ-C7	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
MJ-C8	1.00	0.03	0.00	0.00	0.82	0.14	0.00	0.00	0.05	0.00

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Conduit Surcharge Summary
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	Hours Full			Hours Above Full	Hours Capacity
Conduit	Both Ends	Upstream	Dnstream	Normal Flow	Limited
C100	0.01	0.01	0.01	0.41	0.01

C106	0.07	0.07	0.15	0.01	0.01
C118	0.01	0.01	1.07	0.01	0.01
C119_2	0.01	0.01	1.35	0.34	0.01
C123	0.01	0.01	1.60	0.05	0.01
C124	0.01	0.01	0.01	0.43	0.01
C125	0.01	0.01	2.63	0.01	0.01
C126	3.58	3.58	4.01	0.23	0.01
C145	0.01	0.28	0.01	0.57	0.01
C147	0.01	0.01	0.01	0.32	0.01
C150	0.01	0.02	0.01	0.54	0.01
C167	0.01	0.01	0.01	0.18	0.01
C2	0.05	0.15	0.05	0.25	0.05
C200-	0.17	0.17	0.21	0.01	0.01
C211	0.01	0.01	14.84	0.01	0.01
C228	1.20	1.20	2.85	0.01	0.01
C230	0.38	0.38	0.39	0.01	0.01
C231	0.71	0.71	0.72	0.01	0.06
C232	0.53	0.53	0.63	0.01	0.02
C233	0.63	0.63	0.71	0.01	0.04
C239	1.18	1.18	1.34	0.01	0.01
C240	0.93	0.93	1.01	0.01	0.01
C244	0.01	0.01	0.61	0.01	0.01
C248	0.11	0.23	0.11	0.32	0.11
C252	0.07	0.07	0.11	0.01	0.01
C253	0.01	0.12	0.01	0.18	0.01
C255	0.01	0.01	0.04	0.01	0.01
C256	0.07	0.07	0.11	0.01	0.01
C258	0.01	0.12	0.01	0.30	0.01
C260	0.01	0.01	0.01	0.12	0.01
C27	0.01	0.01	0.01	0.15	0.01
C281	0.01	0.01	0.01	0.12	0.01
C284	0.01	0.01	0.01	0.16	0.01
C288	0.01	1.58	0.01	1.74	0.01
C343	0.48	0.49	0.64	0.69	0.31
C344	0.78	0.78	0.99	0.02	0.06
C345	0.71	0.88	0.71	1.05	0.71
C346	0.01	0.01	0.01	0.29	0.01
C348	19.96	19.96	20.00	2.81	0.01
C349	0.01	0.01	20.14	0.01	0.01
C350	0.01	0.23	0.01	0.37	0.01
C5	0.01	0.01	14.99	0.01	0.01

C53	0.01	0.01	0.07	0.01	0.01
C54	0.01	0.01	0.07	0.01	0.01
C653	0.10	0.20	0.10	0.31	0.10
C655	0.11	0.11	0.13	0.01	0.01
C656	0.10	0.11	0.10	0.27	0.10
C658	0.09	0.22	0.09	0.32	0.09
C660	0.01	0.01	0.01	0.10	0.01
C662	0.01	0.01	1.55	3.65	0.01
C663	1.01	1.01	1.40	0.01	0.01
C664	0.68	0.71	0.69	0.87	0.56
C665	0.01	0.01	0.40	0.01	0.01
C666	0.01	0.14	0.01	0.24	0.01
C674	0.89	0.89	1.89	1.89	0.84
C700	0.98	0.98	2.82	2.93	0.01
C701	0.01	0.01	0.01	0.31	0.01
C711	0.01	0.01	1.65	0.01	0.01
C712	2.06	2.06	4.90	1.13	1.11
C713	1.69	1.71	1.90	0.01	0.01
C714	0.76	0.76	0.86	0.03	0.09
C715	0.01	0.17	0.01	0.95	0.01
C716	0.12	0.21	0.12	0.25	0.12
C717	0.13	0.13	0.16	0.01	0.01
C718	0.28	0.28	0.47	0.01	0.01
C751	0.01	0.01	1.28	0.01	0.01
C752	1.56	1.56	2.25	1.37	1.37
C753	0.62	0.69	0.65	0.76	0.58
C754	0.39	0.39	0.71	0.01	0.01
C755	0.92	0.92	1.00	0.01	0.01
C757	0.13	0.13	0.13	0.11	0.10
C762	0.01	0.01	0.25	0.01	0.01
C763	0.01	0.01	19.19	0.01	0.01
C764	0.17	0.58	0.17	0.87	0.17
C765	1.98	1.98	2.02	0.01	0.10
C766	2.02	2.02	2.06	0.38	0.54
C767	0.19	0.24	0.19	0.33	0.19
MC148	0.01	0.01	14.89	0.01	0.01
MC168	0.01	0.01	14.89	0.01	0.01
MC202	0.01	0.01	0.10	0.01	0.01
MC207	0.01	0.01	0.64	0.01	0.01
MC220	0.01	0.01	0.10	0.01	0.01
MC231	0.01	0.01	14.89	0.01	0.01

MC7	0.01	0.01	0.78	0.01	0.01
MJ-C5	0.01	0.24	0.01	0.01	0.01

Analysis begun on: Thu Sep 7 16:19:29 2023
Analysis ended on: Thu Sep 7 16:19:41 2023
Total elapsed time: 00:00:12

100-Year Storm Event -Baseline Model

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.015)
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WARNING 04: minimum elevation drop used for Conduit C672
WARNING 08: elevation drop exceeds length for Conduit C709
WARNING 03: negative offset ignored for Link C94

*************
Element Count
*************
Number of rain gages ...... 6
Number of subcatchments ... 272
Number of nodes ........... 413
Number of links ........... 451
Number of pollutants ...... 0
Number of land uses ....... 0


****************
Raingage Summary
****************
                                                  Data       Recording
Name                 Data Source                  Type       Interval
----------------------------------------------------------------------
100-yr_Chicago_4h_current 100-yr_Chicago_4h_current      INTENSITY   10 min.
100-yrChicago_4h_climate_change 100-yrChicago_4h_climate_change INTENSITY   10 min.
100yr-Climate_Change_Chicago_24h 100yr-Climate_Change_Chicago_24h INTENSITY    5 min.
100-yr-Historical-Chicago-24h 100-yr-Historical-Chicago-24h  INTENSITY    5 min.
5yr-Climate_Change_Chicago_24h 5yr-Climate_Change_Chicago_24h INTENSITY    5 min.
5yr-Historical_Chicago_24h 5yr-Historical_Chicago_24h     INTENSITY    5 min.


********************
Subcatchment Summary
********************
Name                         Area     Width    %Imperv    %Slope Rain Gage            Outlet
------------------------------------------------------------------------------------------------
Rural_1                      6.93    693.09     40.00    1.5000 100-yr-Historical-Chicago-24h OF55
Rural_10                    33.34   2222.61     40.00    1.5000 100-yr-Historical-Chicago-24h OF46-
Rural_11                     0.47    117.85     40.00    1.5000 100-yr-Historical-Chicago-24h MJ5
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Rural_12	22.22	1481.37	40.00	1.5000	100-yr-Historical-Chicago-24h OF45-
Rural_13	22.63	1508.50	40.00	1.5000	100-yr-Historical-Chicago-24h OF44-
Rural_14	17.01	1133.79	40.00	1.5000	100-yr-Historical-Chicago-24h OF42-
Rural_15	19.30	1286.64	40.00	1.5000	100-yr-Historical-Chicago-24h OF47-
Rural_16	26.34	1756.25	40.00	1.5000	100-yr-Historical-Chicago-24h OF43-
Rural_16-2_1	6.17	617.28	40.00	1.5000	100-yr-Historical-Chicago-24h OF41-
Rural_16-2_2	7.41	740.63	40.00	1.5000	100-yr-Historical-Chicago-24h OF40-
Rural_17	2.77	692.27	40.00	1.5000	100-yr-Historical-Chicago-24h OF28-
Rural_17_1	2.85	711.70	40.00	1.5000	100-yr-Historical-Chicago-24h MJ7
Rural_17_2	15.18	1012.09	40.00	1.5000	100-yr-Historical-Chicago-24h OF34-
Rural_17_4	13.48	898.39	7.00	1.5000	100-yr-Historical-Chicago-24h OF36-
Rural_18	10.27	1027.27	0.00	1.5000	100-yr-Historical-Chicago-24h OF35-
Rural_19	56.92	3794.74	0.00	1.5000	100-yr-Historical-Chicago-24h OF37-
Rural_2	19.33	1932.61	40.00	1.5000	100-yr-Historical-Chicago-24h OF56
Rural_20	24.28	2427.98	0.00	1.5000	100-yr-Historical-Chicago-24h OF38-
Rural_21	97.14	6475.83	0.00	1.5000	100-yr-Historical-Chicago-24h OF48-
Rural_22	42.10	2806.98	7.00	1.5000	100-yr-Historical-Chicago-24h OF58
Rural_23	51.76	3450.73	16.00	1.5000	100-yr-Historical-Chicago-24h OF60
Rural_24	7.67	1916.28	39.00	1.5000	100-yr-Historical-Chicago-24h OF59
Rural_25	39.85	2656.49	12.00	1.5000	100-yr-Historical-Chicago-24h OF58
Rural_26	32.24	2149.19	0.00	1.5000	100-yr-Historical-Chicago-24h OF61
Rural_27	9.02	901.70	40.00	1.5000	100-yr-Historical-Chicago-24h OF39-
Rural_29	17.03	1135.65	40.00	1.5000	100-yr-Historical-Chicago-24h OF47-
Rural_3	7.28	727.85	40.00	1.5000	100-yr-Historical-Chicago-24h OF57
Rural_4	27.11	1807.37	40.00	1.5000	100-yr-Historical-Chicago-24h OF53
Rural_5	11.25	1124.69	40.00	1.5000	100-yr-Historical-Chicago-24h OF51
Rural_6	13.81	1380.92	40.00	1.5000	100-yr-Historical-Chicago-24h OF52
Rural_7	17.28	1152.22	40.00	1.5000	100-yr-Historical-Chicago-24h OF49-
Rural_8	12.76	850.42	40.00	1.5000	100-yr-Historical-Chicago-24h OF50
Rural_9	22.61	1507.37	40.00	1.5000	100-yr-Historical-Chicago-24h OF54
UC1	1.33	443.23	20.00	0.5000	100-yr-Historical-Chicago-24h MJ71
UC10	0.27	88.36	55.00	0.5000	100-yr-Historical-Chicago-24h MJ130
UC100	0.16	53.27	55.00	0.5000	100-yr-Historical-Chicago-24h OF4-M
UC11	1.25	416.49	55.00	0.5000	100-yr-Historical-Chicago-24h MJ130
UC111	0.06	18.46	55.00	0.5000	100-yr-Historical-Chicago-24h MJ19
UC112	0.70	234.53	55.00	0.5000	100-yr-Historical-Chicago-24h MJ19
UC113	0.59	195.81	55.00	0.5000	100-yr-Historical-Chicago-24h MJ34
UC114	0.17	57.05	55.00	0.5000	100-yr-Historical-Chicago-24h MJ21
UC115	0.24	81.58	20.00	0.5000	100-yr-Historical-Chicago-24h MJ23
UC116	0.57	190.77	55.00	0.5000	100-yr-Historical-Chicago-24h MJ13
UC117	0.39	129.17	55.00	0.5000	100-yr-Historical-Chicago-24h MJ13

UC118	0.21	71.29	55.00	0.5000	100-yr-Historical-Chicago-24h MJ13
UC119	0.33	109.09	55.00	0.5000	100-yr-Historical-Chicago-24h MJ13
UC12	0.91	302.53	55.00	0.5000	100-yr-Historical-Chicago-24h MH2_S
UC120	1.43	475.37	55.00	0.5000	100-yr-Historical-Chicago-24h MJ135
UC121	0.29	96.14	25.00	0.5000	100-yr-Historical-Chicago-24h MJ26
UC122	0.30	100.59	55.00	0.5000	100-yr-Historical-Chicago-24h MJ105
UC123	0.15	51.62	55.00	0.5000	100-yr-Historical-Chicago-24h MJ87
UC124	0.24	80.00	55.00	0.5000	100-yr-Historical-Chicago-24h MJ74
UC125	0.30	30.34	25.00	0.5000	100-yr-Historical-Chicago-24h MJ25
UC126	0.08	26.84	55.00	0.5000	100-yr-Historical-Chicago-24h MJ114
UC127	0.40	134.31	55.00	0.5000	100-yr-Historical-Chicago-24h MJ120
UC128	0.03	8.82	55.00	0.5000	100-yr-Historical-Chicago-24h MJ114
UC129	0.04	14.37	55.00	0.5000	100-yr-Historical-Chicago-24h MJ103
UC13	1.12	372.27	55.00	0.5000	100-yr-Historical-Chicago-24h MH3_S
UC130	0.16	54.47	25.00	0.5000	100-yr-Historical-Chicago-24h MJ44
UC131	0.07	22.34	55.00	0.5000	100-yr-Historical-Chicago-24h MJ97
UC132	0.12	38.54	55.00	0.5000	100-yr-Historical-Chicago-24h MJ91
UC133	0.26	85.91	20.00	0.5000	100-yr-Historical-Chicago-24h MJ35
UC134	0.07	23.97	55.00	0.5000	100-yr-Historical-Chicago-24h MJ77
UC135	0.35	118.31	20.00	0.5000	100-yr-Historical-Chicago-24h MJ27
UC136	0.02	7.51	55.00	0.5000	100-yr-Historical-Chicago-24h MJ61
UC137	0.16	53.32	25.00	0.5000	100-yr-Historical-Chicago-24h MJ30
UC138	0.20	65.32	25.00	0.5000	100-yr-Historical-Chicago-24h MJ14
UC139	0.05	15.79	25.00	0.5000	100-yr-Historical-Chicago-24h MJ10
UC14	0.46	152.40	55.00	0.5000	100-yr-Historical-Chicago-24h MJ143
UC140	0.13	43.41	25.00	0.5000	100-yr-Historical-Chicago-24h MJ1
UC141	0.27	91.09	25.00	0.5000	100-yr-Historical-Chicago-24h MJ1
UC142	0.13	43.51	25.00	0.5000	100-yr-Historical-Chicago-24h MJ2
UC143	0.59	195.95	25.00	0.5000	100-yr-Historical-Chicago-24h MJ2
UC144	0.34	114.43	25.00	0.5000	100-yr-Historical-Chicago-24h MJ31
UC145	0.38	128.10	25.00	0.5000	100-yr-Historical-Chicago-24h MJ31
UC146	0.45	151.56	25.00	0.5000	100-yr-Historical-Chicago-24h MJ30
UC147	0.16	51.99	25.00	0.5000	100-yr-Historical-Chicago-24h MJ20
UC148	0.17	55.60	25.00	0.5000	100-yr-Historical-Chicago-24h MJ32
UC149	0.30	98.86	25.00	0.5000	100-yr-Historical-Chicago-24h MJ32
UC15	0.22	72.23	55.00	0.5000	100-yr-Historical-Chicago-24h MH8_S
UC150	0.63	210.22	20.00	0.5000	100-yr-Historical-Chicago-24h MJ27
UC151	0.23	78.08	55.00	0.5000	100-yr-Historical-Chicago-24h MJ57
UC152	0.15	48.86	55.00	0.5000	100-yr-Historical-Chicago-24h MJ3
UC153	0.48	159.93	55.00	0.5000	100-yr-Historical-Chicago-24h MJ3
UC154	0.65	217.20	55.00	0.5000	100-yr-Historical-Chicago-24h MJ3

UC155	0.19	62.55	55.00	0.5000	100-yr-Historical-Chicago-24h MJ45
UC156	0.54	181.16	55.00	0.5000	100-yr-Historical-Chicago-24h MJ25
UC157	0.46	152.01	55.00	0.5000	100-yr-Historical-Chicago-24h OF31-M
UC158	0.73	243.70	5.00	0.5000	100-yr-Historical-Chicago-24h MH_11
UC159	0.12	38.43	55.00	0.5000	100-yr-Historical-Chicago-24h CBMH5_ON
UC16	0.50	166.28	55.00	0.5000	100-yr-Historical-Chicago-24h CB15
UC160	1.93	642.25	55.00	0.5000	100-yr-Historical-Chicago-24h MJ152
UC161	0.97	324.28	5.00	0.5000	100-yr-Historical-Chicago-24h MJ155
UC162	0.37	122.53	55.00	0.5000	100-yr-Historical-Chicago-24h J127
UC163	0.08	25.95	55.00	0.5000	100-yr-Historical-Chicago-24h CB23
UC164	0.35	116.48	55.00	0.5000	100-yr-Historical-Chicago-24h CB17
UC165	2.97	991.03	35.00	0.5000	100-yr-Historical-Chicago-24h MJ152
UC166	0.53	175.10	5.00	0.5000	100-yr-Historical-Chicago-24h OF62
UC167	0.61	204.17	55.00	0.5000	100-yr-Historical-Chicago-24h OF6-
UC168	0.16	51.90	55.00	0.5000	100-yr-Historical-Chicago-24h MJ63
UC169	1.73	578.26	55.00	0.5000	100-yr-Historical-Chicago-24h MJ154
UC17	0.82	272.45	55.00	0.5000	100-yr-Historical-Chicago-24h MJ125
UC170	1.52	507.66	5.00	0.5000	100-yr-Historical-Chicago-24h MJ155
UC171	1.20	401.37	55.00	0.5000	100-yr-Historical-Chicago-24h MJ153
UC172	2.02	674.77	15.00	0.5000	100-yr-Historical-Chicago-24h MJ154
UC173	2.17	724.79	55.00	0.5000	100-yr-Historical-Chicago-24h MJ152
UC174	1.55	516.31	55.00	0.5000	100-yr-Historical-Chicago-24h MJ148
UC175	0.11	36.39	55.00	0.5000	100-yr-Historical-Chicago-24h MJ147
UC176	0.22	74.81	55.00	0.5000	100-yr-Historical-Chicago-24h MJ134
UC177	0.82	272.09	55.00	0.5000	100-yr-Historical-Chicago-24h MJ148
UC178	0.79	263.61	55.00	0.5000	100-yr-Historical-Chicago-24h OF9-M
UC179	0.43	141.99	55.00	0.5000	100-yr-Historical-Chicago-24h OF30-M
UC18	0.68	227.09	55.00	0.5000	100-yr-Historical-Chicago-24h MJ130
UC180	3.20	1067.16	55.00	0.5000	100-yr-Historical-Chicago-24h MJ100
UC181	0.76	254.77	55.00	0.5000	100-yr-Historical-Chicago-24h MJ100
UC182	1.10	367.89	55.00	0.5000	100-yr-Historical-Chicago-24h MJ70
UC183	2.34	778.67	55.00	0.5000	100-yr-Historical-Chicago-24h MJ122
UC184	0.11	35.65	55.00	0.5000	100-yr-Historical-Chicago-24h MJ99
UC185	0.11	35.03	55.00	0.5000	100-yr-Historical-Chicago-24h MJ107
UC186	0.05	15.93	55.00	0.5000	100-yr-Historical-Chicago-24h MJ104
UC187	0.14	45.38	55.00	0.5000	100-yr-Historical-Chicago-24h MJ104
UC188	1.25	417.00	55.00	0.5000	100-yr-Historical-Chicago-24h MJ129
UC189	1.78	592.86	55.00	0.5000	100-yr-Historical-Chicago-24h MJ116
UC19	0.74	247.66	55.00	0.5000	100-yr-Historical-Chicago-24h MJ108
UC190	0.38	127.82	55.00	0.5000	100-yr-Historical-Chicago-24h MJ129
UC191	0.09	29.27	55.00	0.5000	100-yr-Historical-Chicago-24h MJ132

UC192	2.38	792.09	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ134
UC193	0.63	209.65	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ147
UC194	1.71	571.06	55.00	0.5000	100-yr-Historical-Chicago-24h	MH21_S
UC195	1.13	377.67	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ146
UC196	0.60	200.27	55.00	0.5000	100-yr-Historical-Chicago-24h	Gill_RD_Pond
UC197	0.77	256.83	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ124
UC198	0.77	257.37	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ145
UC199	0.23	75.93	55.00	0.5000	100-yr-Historical-Chicago-24h	OF26-M
UC2	0.69	228.67	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ84
UC20	0.91	303.91	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ101
UC200	0.40	132.98	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ119
UC201	1.05	349.75	55.00	0.5000	100-yr-Historical-Chicago-24h	MH34_S
UC202	0.87	290.43	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ139
UC203	0.66	221.28	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ128
UC204	0.79	263.60	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ128
UC205	0.39	130.87	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ112
UC206	2.25	751.40	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ95
UC207	0.96	320.57	55.00	0.5000	100-yr-Historical-Chicago-24h	J1
UC208	0.57	191.63	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ110
UC209	0.38	125.76	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ112
UC21	0.42	139.13	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ103
UC210	1.55	516.08	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ92
UC211	2.79	930.15	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ67
UC212	2.81	937.22	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ22
UC213	4.46	1486.35	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ22
UC214	0.61	203.69	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ7
UC215	1.27	423.54	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ15
UC216	1.99	663.06	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ36
UC217	1.96	652.18	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ36
UC218	1.20	400.42	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ24
UC219	0.14	46.27	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ122
UC22	0.39	130.02	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ89
UC220	0.03	9.20	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ131
UC221	0.13	42.97	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ136
UC222	0.31	104.56	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ135
UC223	0.26	87.52	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ135
UC224	0.37	123.74	55.00	0.5000	100-yr-Historical-Chicago-24h	MJ151
UC225	0.73	243.33	55.00	0.5000	100-yr-Historical-Chicago-24h	MH8_S
UC226	1.64	548.17	5.00	0.5000	100-yr-Historical-Chicago-24h	MH_34
UC227	3.44	1146.33	5.00	0.5000	100-yr-Historical-Chicago-24h	MH_27
UC228	1.69	564.60	5.00	0.5000	100-yr-Historical-Chicago-24h	MH_14

UC229	0.02	7.54	55.00	0.5000	100-yr-Historical-Chicago-24h MJ64
UC23	0.33	111.21	55.00	0.5000	100-yr-Historical-Chicago-24h MJ86
UC24	0.34	114.53	55.00	0.5000	100-yr-Historical-Chicago-24h MJ80
UC25	0.31	104.28	55.00	0.5000	100-yr-Historical-Chicago-24h MJ65
UC26	0.18	58.99	55.00	0.5000	100-yr-Historical-Chicago-24h MJ76
UC27	0.15	50.82	55.00	0.5000	100-yr-Historical-Chicago-24h MJ86
UC28	0.22	72.77	55.00	0.5000	100-yr-Historical-Chicago-24h MJ69
UC29	0.26	85.34	55.00	0.5000	100-yr-Historical-Chicago-24h MJ69
UC3	0.16	54.62	55.00	0.5000	100-yr-Historical-Chicago-24h MJ102
UC30	0.05	17.37	20.00	0.5000	100-yr-Historical-Chicago-24h MJ66
UC300	1.52	505.83	55.00	0.5000	100-yr-Historical-Chicago-24h OF28-
UC301	4.36	1453.53	55.00	0.5000	100-yr-Historical-Chicago-24h OF23-
UC302	0.47	158.17	55.00	0.5000	100-yr-Historical-Chicago-24h OF26-M
UC303	0.55	184.73	55.00	0.5000	100-yr-Historical-Chicago-24h OF27-1
UC304	2.14	712.20	55.00	0.5000	100-yr-Historical-Chicago-24h OF21-
UC305	2.14	714.30	55.00	0.5000	100-yr-Historical-Chicago-24h OF10-
UC306	0.69	229.93	5.00	0.5000	100-yr-Historical-Chicago-24h J1
UC307	0.50	165.17	55.00	0.5000	100-yr-Historical-Chicago-24h OF27-1
UC308	2.74	245.84	55.00	0.5000	100-yr-Historical-Chicago-24h MJ12
UC309	0.46	154.37	55.00	0.5000	100-yr-Historical-Chicago-24h OF17-
UC31	0.33	111.10	20.00	0.5000	100-yr-Historical-Chicago-24h MJ55
UC310	0.71	238.23	55.00	0.5000	100-yr-Historical-Chicago-24h OF19-
UC311	4.49	1495.23	55.00	0.5000	100-yr-Historical-Chicago-24h OF15-
UC312	1.66	554.30	55.00	0.5000	100-yr-Historical-Chicago-24h OF15-
UC313	7.10	2367.87	35.00	0.5000	100-yr-Historical-Chicago-24h CBMH_1
UC314	0.23	77.97	55.00	0.5000	100-yr-Historical-Chicago-24h OF18-M
UC315	0.94	313.53	55.00	0.5000	100-yr-Historical-Chicago-24h OF5-M
UC316	0.64	214.80	55.00	0.5000	100-yr-Historical-Chicago-24h OF5-M
UC317	0.59	197.20	55.00	0.5000	100-yr-Historical-Chicago-24h OF4-M
UC318	0.63	210.60	20.00	0.5000	100-yr-Historical-Chicago-24h OF3-
UC319	2.35	781.77	55.00	0.5000	100-yr-Historical-Chicago-24h OF27-M
UC32	0.12	38.49	20.00	0.5000	100-yr-Historical-Chicago-24h MJ48
UC33	0.80	266.66	20.00	0.5000	100-yr-Historical-Chicago-24h MJ48
UC34	0.62	205.09	20.00	0.5000	100-yr-Historical-Chicago-24h MJ55
UC35	0.06	18.45	55.00	0.5000	100-yr-Historical-Chicago-24h MJ69
UC36	0.05	16.27	55.00	0.5000	100-yr-Historical-Chicago-24h MJ60
UC37	0.10	32.31	20.00	0.5000	100-yr-Historical-Chicago-24h MJ55
UC38	0.41	137.29	20.00	0.5000	100-yr-Historical-Chicago-24h MJ37
UC39	0.14	47.24	55.00	0.5000	100-yr-Historical-Chicago-24h MJ51
UC4	0.40	133.14	55.00	0.5000	100-yr-Historical-Chicago-24h MJ102
UC40	0.09	30.17	55.00	0.5000	100-yr-Historical-Chicago-24h MJ61

UC41	0.05	15.78	55.00	0.5000	100-yr-Historical-Chicago-24h MJ73
UC42	0.09	30.13	55.00	0.5000	100-yr-Historical-Chicago-24h MJ73
UC43	0.07	24.64	55.00	0.5000	100-yr-Historical-Chicago-24h MJ83
UC44	0.06	21.00	55.00	0.5000	100-yr-Historical-Chicago-24h MJ83
UC45	0.17	56.40	55.00	0.5000	100-yr-Historical-Chicago-24h MJ89
UC46	0.13	42.55	55.00	0.5000	100-yr-Historical-Chicago-24h MJ108
UC47	0.15	49.57	55.00	0.5000	100-yr-Historical-Chicago-24h MJ118
UC48	0.19	63.36	55.00	0.5000	100-yr-Historical-Chicago-24h MJ118
UC49	0.42	138.36	55.00	0.5000	100-yr-Historical-Chicago-24h CB20
UC5	0.51	169.28	55.00	0.5000	100-yr-Historical-Chicago-24h MJ103
UC50	0.29	95.42	55.00	0.5000	100-yr-Historical-Chicago-24h CB19
UC51	0.63	211.64	55.00	0.5000	100-yr-Historical-Chicago-24h MJ115
UC52	0.57	189.36	55.00	0.5000	100-yr-Historical-Chicago-24h MJ131
UC53	0.79	264.40	55.00	0.5000	100-yr-Historical-Chicago-24h MJ105
UC54	0.77	256.33	55.00	0.5000	100-yr-Historical-Chicago-24h MJ93
UC55	0.70	233.10	55.00	0.5000	100-yr-Historical-Chicago-24h MJ87
UC56	0.41	135.07	55.00	0.5000	100-yr-Historical-Chicago-24h MJ82
UC57	0.35	117.21	55.00	0.5000	100-yr-Historical-Chicago-24h MJ72
UC58	0.29	97.61	55.00	0.5000	100-yr-Historical-Chicago-24h MJ64
UC59	0.23	76.57	55.00	0.5000	100-yr-Historical-Chicago-24h MJ61
UC6	0.22	71.89	55.00	0.5000	100-yr-Historical-Chicago-24h MJ102
UC60	0.16	52.37	55.00	0.5000	100-yr-Historical-Chicago-24h MJ61
UC61	0.36	120.37	20.00	0.5000	100-yr-Historical-Chicago-24h MJ35
UC62	0.69	228.71	55.00	0.5000	100-yr-Historical-Chicago-24h MJ26
UC63	0.08	26.32	55.00	0.5000	100-yr-Historical-Chicago-24h MJ18
UC64	0.05	15.69	55.00	0.5000	100-yr-Historical-Chicago-24h MJ53
UC65	0.14	47.86	55.00	0.5000	100-yr-Historical-Chicago-24h MJ72
UC66	0.07	23.20	55.00	0.5000	100-yr-Historical-Chicago-24h MJ79
UC67	0.00	1.18	55.00	0.5000	100-yr-Historical-Chicago-24h MJ79
UC68	0.24	78.40	55.00	0.5000	100-yr-Historical-Chicago-24h MJ74
UC69	0.04	11.73	55.00	0.5000	100-yr-Historical-Chicago-24h MJ78
UC7	0.30	99.82	55.00	0.5000	100-yr-Historical-Chicago-24h MJ113
UC70	0.05	18.24	55.00	0.5000	100-yr-Historical-Chicago-24h MJ75
UC71	0.84	220.45	55.00	0.5000	100-yr-Historical-Chicago-24h Rice_Pond
UC72	0.06	18.71	55.00	0.5000	100-yr-Historical-Chicago-24h MJ81
UC73	0.36	121.41	55.00	0.5000	100-yr-Historical-Chicago-24h MJ90
UC74	15.94	4116.06	5.00	0.5000	100-yr-Historical-Chicago-24h OF24-
UC75	0.21	69.77	55.00	0.5000	100-yr-Historical-Chicago-24h MJ93
UC76	0.32	105.90	55.00	0.5000	100-yr-Historical-Chicago-24h MJ81
UC77	0.27	89.05	55.00	0.5000	100-yr-Historical-Chicago-24h MJ59
UC78	0.39	130.61	55.00	0.5000	100-yr-Historical-Chicago-24h MJ42

UC79	0.06	18.52	55.00	0.5000	100-yr-Historical-Chicago-24h MJ117
UC8	0.45	148.58	55.00	0.5000	100-yr-Historical-Chicago-24h MJ120
UC80	0.03	9.53	55.00	0.5000	100-yr-Historical-Chicago-24h MJ64
UC81	0.25	81.93	55.00	0.5000	100-yr-Historical-Chicago-24h MJ115
UC82	0.45	151.11	55.00	0.5000	100-yr-Historical-Chicago-24h MJ90
UC83	0.19	61.70	55.00	0.5000	100-yr-Historical-Chicago-24h OF5-M
UC84	1.13	376.24	20.00	0.5000	100-yr-Historical-Chicago-24h MJ9
UC85	0.42	138.40	55.00	0.5000	100-yr-Historical-Chicago-24h MJ74
UC86	0.33	109.61	55.00	0.5000	100-yr-Historical-Chicago-24h MJ59
UC87	0.15	48.47	55.00	0.5000	100-yr-Historical-Chicago-24h MJ56
UC88	0.16	53.96	55.00	0.5000	100-yr-Historical-Chicago-24h MJ52
UC89	0.36	119.67	55.00	0.5000	100-yr-Historical-Chicago-24h MJ52
UC9	0.47	158.00	55.00	0.5000	100-yr-Historical-Chicago-24h MJ127
UC90	0.14	47.36	55.00	0.5000	100-yr-Historical-Chicago-24h MJ58
UC91	0.04	14.63	55.00	0.5000	100-yr-Historical-Chicago-24h MJ47
UC92	0.08	27.04	55.00	0.5000	100-yr-Historical-Chicago-24h MJ47
UC93	0.21	69.53	55.00	0.5000	100-yr-Historical-Chicago-24h MJ38
UC94	0.17	55.62	55.00	0.5000	100-yr-Historical-Chicago-24h MJ38
UC95	0.10	31.80	55.00	0.5000	100-yr-Historical-Chicago-24h MJ46
UC96	0.23	75.23	55.00	0.5000	100-yr-Historical-Chicago-24h MJ29
UC97	0.14	46.20	55.00	0.5000	100-yr-Historical-Chicago-24h MJ29
UC98	0.22	73.89	55.00	0.5000	100-yr-Historical-Chicago-24h MJ47
UC99	0.33	111.47	55.00	0.5000	100-yr-Historical-Chicago-24h MJ17

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
CB15	JUNCTION	181.70	1.40	0.0	
CB16	JUNCTION	181.95	1.58	0.0	
CB17	JUNCTION	180.27	2.86	0.0	
CB18	JUNCTION	181.40	1.68	0.0	
CB19	JUNCTION	181.60	1.50	0.0	
CB20	JUNCTION	181.34	1.76	0.0	
CB21	JUNCTION	180.51	2.49	0.0	
CB22	JUNCTION	181.20	2.30	0.0	
CB23	JUNCTION	181.45	1.85	0.0	
CB26	JUNCTION	179.34	3.28	0.0	

CB27	JUNCTION	182.57	1.72	0.0
CB29	JUNCTION	185.26	0.85	0.0
CB30	JUNCTION	185.15	0.91	0.0
CB30_1	JUNCTION	183.93	1.57	0.0
CB31	JUNCTION	183.49	1.13	0.0
CB32	JUNCTION	183.42	1.22	0.0
CB33	JUNCTION	183.34	1.39	0.0
CB34	JUNCTION	184.40	0.74	0.0
CB35	JUNCTION	184.20	0.95	0.0
CB41	JUNCTION	181.77	0.85	0.0
CB42	JUNCTION	181.15	1.50	0.0
CB-58	JUNCTION	180.43	2.10	0.0
CBMH_1	JUNCTION	181.53	1.47	0.0
CBMH_40	JUNCTION	182.75	2.25	0.0
CBMH_41	JUNCTION	182.52	1.98	0.0
CBMH_42	JUNCTION	182.82	1.68	0.0
CBMH_44	JUNCTION	182.43	1.87	0.0
CBMH_46	JUNCTION	182.00	2.03	0.0
CBMH_62	JUNCTION	182.63	1.56	0.0
CBMH1	JUNCTION	182.55	1.45	0.0
CBMH1_ON	JUNCTION	184.86	1.26	0.0
CBMH10_Main	JUNCTION	179.41	2.02	0.0
CBMH2	JUNCTION	180.73	3.49	0.0
CBMH2_ON	JUNCTION	184.54	2.00	0.0
CBMH3_ON	JUNCTION	184.25	2.33	0.0
CBMH4_ON	JUNCTION	183.99	2.41	0.0
CBMH5	JUNCTION	179.80	2.75	0.0
CBMH5_ON	JUNCTION	184.05	2.30	0.0
CBMH6_ON	JUNCTION	183.89	2.26	0.0
CBMH7	JUNCTION	182.38	1.87	0.0
CBMH7_ON	JUNCTION	183.71	1.58	0.0
CBMH8_ON	JUNCTION	183.26	1.51	0.0
CBMH9_ON	JUNCTION	182.74	1.61	0.0
DCB72	JUNCTION	180.43	1.45	0.0
DICBMH42	JUNCTION	176.65	2.45	0.0
J1	JUNCTION	183.00	2.00	0.0
J101	JUNCTION	180.77	1.30	0.0
J102	JUNCTION	180.30	1.74	0.0
J105	JUNCTION	183.98	1.52	0.0
J106	JUNCTION	183.62	1.13	0.0
J110	JUNCTION	180.82	1.39	0.0

J113	JUNCTION	180.92	1.25	0.0
J115	JUNCTION	183.07	1.93	0.0
J116	JUNCTION	176.45	1.41	0.0
J12	JUNCTION	183.32	3.08	0.0
J125	JUNCTION	178.39	4.50	0.0
J127	JUNCTION	180.71	2.36	0.0
J128	JUNCTION	180.92	2.45	0.0
J15	JUNCTION	180.71	3.09	0.0
J2	JUNCTION	182.87	2.00	0.0
J20	JUNCTION	179.51	3.24	0.0
J24	JUNCTION	177.76	4.94	0.0
J3	JUNCTION	181.58	2.00	0.0
J30	JUNCTION	186.43	2.77	0.0
J31	JUNCTION	185.91	3.09	0.0
J34	JUNCTION	181.75	1.62	0.0
J35	JUNCTION	181.98	1.23	0.0
J36	JUNCTION	179.96	3.79	0.0
J38	JUNCTION	180.00	3.26	0.0
J4	JUNCTION	185.20	2.55	0.0
J42	JUNCTION	179.01	3.19	0.0
J43	JUNCTION	178.80	3.55	0.0
J47	JUNCTION	179.99	2.53	0.0
J48	JUNCTION	180.60	3.90	0.0
J49	JUNCTION	180.92	2.12	0.0
J5	JUNCTION	184.85	3.65	0.0
J50	JUNCTION	178.47	4.13	0.0
J52	JUNCTION	178.68	3.32	0.0
J55	JUNCTION	178.50	3.72	0.0
J6	JUNCTION	181.23	2.00	0.0
J62	JUNCTION	178.38	4.00	0.0
J66	JUNCTION	176.80	1.21	0.0
J67	JUNCTION	176.71	1.02	0.0
J7	JUNCTION	182.39	2.00	0.0
J70	JUNCTION	175.92	1.45	0.0
J78	JUNCTION	0.00	0.30	0.0
J8	JUNCTION	184.40	1.77	0.0
J83	JUNCTION	0.00	0.30	0.0
J91	JUNCTION	178.37	4.55	0.0
J93	JUNCTION	182.16	0.74	0.0
J95	JUNCTION	182.38	0.64	0.0
J98	JUNCTION	181.18	0.86	0.0

MH_1	JUNCTION	181.24	2.76	0.0
MH_11	JUNCTION	183.13	3.33	0.0
MH_14	JUNCTION	183.75	2.84	0.0
MH_15	JUNCTION	182.74	3.11	0.0
MH_16	JUNCTION	182.59	3.03	0.0
MH_17	JUNCTION	182.15	2.72	0.0
MH_2	JUNCTION	180.60	1.90	0.0
MH_27	JUNCTION	183.07	2.54	0.0
MH_29	JUNCTION	183.90	1.74	0.0
MH_30	JUNCTION	183.08	2.19	0.0
MH_34	JUNCTION	183.13	2.94	0.0
MH_35	JUNCTION	182.73	2.96	0.0
MH_36	JUNCTION	182.63	2.91	0.0
MH_37	JUNCTION	182.25	2.93	0.0
MH_38	JUNCTION	182.02	2.87	0.0
MH_39	JUNCTION	181.68	2.80	0.0
MH_43	JUNCTION	182.56	1.74	0.0
MH_45	JUNCTION	182.14	1.89	0.0
MH_47	JUNCTION	181.56	2.77	0.0
MH_56	JUNCTION	183.17	0.83	0.0
MH_57	JUNCTION	182.84	1.26	0.0
MH_58	JUNCTION	182.68	1.46	0.0
MH_59	JUNCTION	183.44	1.06	0.0
MH_61	JUNCTION	183.17	1.33	0.0
MH_63	JUNCTION	182.46	1.79	0.0
MH_64	JUNCTION	182.20	2.23	0.0
MH_65	JUNCTION	181.87	2.45	0.0
MH_66	JUNCTION	181.81	2.42	0.0
MH_67	JUNCTION	181.33	2.72	0.0
MH_68	JUNCTION	181.12	2.23	0.0
MH_69	JUNCTION	180.26	3.94	0.0
MH_70	JUNCTION	179.67	2.41	0.0
MH1	JUNCTION	181.11	2.89	0.0
MH1_Main	JUNCTION	183.85	1.77	0.0
MH10	JUNCTION	179.50	3.65	0.0
MH10__S	JUNCTION	183.15	2.00	0.0
MH10_Main	JUNCTION	176.78	2.27	0.0
MH11	JUNCTION	179.30	3.47	0.0
MH11__S	JUNCTION	182.77	2.00	0.0
MH11_Main	JUNCTION	176.34	2.32	0.0
MH12	JUNCTION	181.20	1.87	0.0

MH13	JUNCTION	178.80	4.45	0.0
MH13_Main	JUNCTION	181.26	1.68	0.0
MH13_Main_	JUNCTION	180.75	1.93	0.0
MH14	JUNCTION	178.35	5.60	0.0
MH14_Main	JUNCTION	180.55	2.15	0.0
MH15	JUNCTION	178.20	5.71	0.0
MH15_Main	JUNCTION	180.49	2.55	0.0
MH16	JUNCTION	178.00	5.20	0.0
MH2	JUNCTION	181.00	2.95	0.0
MH2_Main	JUNCTION	183.35	1.52	0.0
MH2_S	JUNCTION	183.95	2.00	0.0
MH21	JUNCTION	181.12	1.98	0.0
MH21_S	JUNCTION	182.80	2.00	0.0
MH22	JUNCTION	180.69	2.21	0.0
MH23	JUNCTION	180.76	2.04	0.0
MH24	JUNCTION	180.59	2.18	0.0
MH25	JUNCTION	180.10	2.85	0.0
MH25-1	JUNCTION	180.26	2.69	0.0
MH26	JUNCTION	179.76	3.09	0.0
MH3	JUNCTION	180.92	3.19	0.0
MH3_Main	JUNCTION	182.82	2.67	0.0
MH3_S	JUNCTION	184.11	2.00	0.0
MH30	JUNCTION	179.43	2.82	0.0
MH31	JUNCTION	179.33	3.10	0.0
MH32	JUNCTION	179.21	2.82	0.0
MH33	JUNCTION	179.13	2.90	0.0
MH34	JUNCTION	179.06	2.06	0.0
MH34_S	JUNCTION	181.48	2.00	0.0
MH35	JUNCTION	178.95	2.88	0.0
MH36	JUNCTION	178.83	3.13	0.0
MH36_S	JUNCTION	181.97	2.00	0.0
MH37	JUNCTION	179.80	2.54	0.0
MH37_S	JUNCTION	182.34	2.00	0.0
MH38	JUNCTION	179.55	2.72	0.0
MH39	JUNCTION	179.41	2.76	0.0
MH4	JUNCTION	180.70	3.46	0.0
MH4_Main	JUNCTION	181.66	2.60	0.0
MH40	JUNCTION	178.83	3.25	0.0
MH41	JUNCTION	178.68	3.18	0.0
MH41_S	JUNCTION	181.86	2.00	0.0
MH42	JUNCTION	177.44	2.00	0.0

MH43	JUNCTION	177.28	4.82	0.0
MH5	JUNCTION	182.45	2.55	0.0
MH5_Main	JUNCTION	180.75	2.08	0.0
MH6	JUNCTION	182.32	2.68	0.0
MH6_Main	JUNCTION	180.24	3.03	0.0
MH7	JUNCTION	182.10	1.90	0.0
MH7_Main	JUNCTION	180.25	1.77	0.0
MH8	JUNCTION	180.51	3.45	0.0
MH8_Main	JUNCTION	177.56	1.91	0.0
MH8_S	JUNCTION	183.96	2.00	0.0
MH9	JUNCTION	180.27	3.46	0.0
MH9__S	JUNCTION	183.22	2.00	0.0
MH9_Main	JUNCTION	177.61	1.93	0.0
MJ_	JUNCTION	182.63	2.00	0.0
MJ1	JUNCTION	177.47	2.00	0.0
MJ10	JUNCTION	183.50	2.00	0.0
MJ100	JUNCTION	182.26	2.00	0.0
MJ101	JUNCTION	183.69	2.00	0.0
MJ102	JUNCTION	182.86	2.00	0.0
MJ103	JUNCTION	183.01	2.00	0.0
MJ104	JUNCTION	184.20	2.00	0.0
MJ105	JUNCTION	184.47	2.00	0.0
MJ106	JUNCTION	183.57	2.00	0.0
MJ107	JUNCTION	184.16	2.00	0.0
MJ108	JUNCTION	185.68	2.00	0.0
MJ109	JUNCTION	184.90	2.00	0.0
MJ11	JUNCTION	178.72	2.00	0.0
MJ110	JUNCTION	182.03	2.00	0.0
MJ111	JUNCTION	182.56	2.00	0.0
MJ112	JUNCTION	180.63	2.00	0.0
MJ113	JUNCTION	184.24	2.00	0.0
MJ114	JUNCTION	184.53	2.00	0.0
MJ115	JUNCTION	185.42	2.00	0.0
MJ116	JUNCTION	181.97	2.00	0.0
MJ117	JUNCTION	185.54	2.00	0.0
MJ118	JUNCTION	184.71	2.00	0.0
MJ119	JUNCTION	180.21	2.00	0.0
MJ12	JUNCTION	179.00	2.00	0.0
MJ120	JUNCTION	183.93	2.00	0.0
MJ121	JUNCTION	186.66	2.00	0.0
MJ122	JUNCTION	184.25	2.00	0.0

MJ123	JUNCTION	187.14	2.00	0.0
MJ124	JUNCTION	180.38	2.00	0.0
MJ125	JUNCTION	186.11	2.00	0.0
MJ126	JUNCTION	185.15	2.03	0.0
MJ127	JUNCTION	185.86	2.00	0.0
MJ128	JUNCTION	182.09	2.00	0.0
MJ129	JUNCTION	181.77	2.00	0.0
MJ13	JUNCTION	178.60	2.00	0.0
MJ130	JUNCTION	186.07	2.00	0.0
MJ131	JUNCTION	184.25	2.00	0.0
MJ132	JUNCTION	181.74	2.00	0.0
MJ133	JUNCTION	186.56	2.00	0.0
MJ134	JUNCTION	181.39	2.00	0.0
MJ135	JUNCTION	183.25	2.00	0.0
MJ136	JUNCTION	183.36	2.00	0.0
MJ137	JUNCTION	182.43	2.00	0.0
MJ138	JUNCTION	187.83	2.00	0.0
MJ139	JUNCTION	181.93	2.00	0.0
MJ14	JUNCTION	181.49	2.00	0.0
MJ140	JUNCTION	182.17	2.00	0.0
MJ142	JUNCTION	182.62	2.00	0.0
MJ143	JUNCTION	184.16	2.00	0.0
MJ144	JUNCTION	182.85	2.00	0.0
MJ145	JUNCTION	182.53	2.00	0.0
MJ146	JUNCTION	182.36	2.00	0.0
MJ147	JUNCTION	183.01	2.00	0.0
MJ148	JUNCTION	183.01	2.00	0.0
MJ149	JUNCTION	184.00	2.00	0.0
MJ15	JUNCTION	188.53	2.00	0.0
MJ150	JUNCTION	184.44	2.00	0.0
MJ151	JUNCTION	183.38	2.00	0.0
MJ152	JUNCTION	183.70	2.00	0.0
MJ153	JUNCTION	184.32	1.56	0.0
MJ154	JUNCTION	184.48	1.98	0.0
MJ155	JUNCTION	185.18	2.00	0.0
MJ156	JUNCTION	185.85	2.00	0.0
MJ157	JUNCTION	186.21	2.00	0.0
MJ158	JUNCTION	183.48	2.00	0.0
MJ16	JUNCTION	178.64	2.00	0.0
MJ17	JUNCTION	181.83	2.00	0.0
MJ18	JUNCTION	183.36	2.00	0.0

MJ19	JUNCTION	180.99	2.00	0.0
MJ2	JUNCTION	177.75	2.00	0.0
MJ20	JUNCTION	183.28	2.00	0.0
MJ21	JUNCTION	178.93	2.00	0.0
MJ22	JUNCTION	186.16	2.00	0.0
MJ23	JUNCTION	179.26	2.00	0.0
MJ24	JUNCTION	181.81	2.00	0.0
MJ25	JUNCTION	183.46	2.00	0.0
MJ26	JUNCTION	182.88	2.00	0.0
MJ27	JUNCTION	179.82	2.00	0.0
MJ28	JUNCTION	183.09	2.00	0.0
MJ29	JUNCTION	181.04	2.00	0.0
MJ3	JUNCTION	177.39	2.00	0.0
MJ30	JUNCTION	181.35	2.00	0.0
MJ31	JUNCTION	181.07	2.00	0.0
MJ32	JUNCTION	181.94	2.00	0.0
MJ33	JUNCTION	181.69	2.00	0.0
MJ34	JUNCTION	179.69	2.00	0.0
MJ35	JUNCTION	180.16	2.00	0.0
MJ36	JUNCTION	182.67	2.00	0.0
MJ37	JUNCTION	178.64	2.00	0.0
MJ38	JUNCTION	181.67	2.00	0.0
MJ39	JUNCTION	183.95	2.00	0.0
MJ4	JUNCTION	179.70	2.00	0.0
MJ40	JUNCTION	182.92	2.00	0.0
MJ41	JUNCTION	183.49	2.00	0.0
MJ42	JUNCTION	180.66	2.00	0.0
MJ43	JUNCTION	186.65	2.00	0.0
MJ44	JUNCTION	183.40	2.00	0.0
MJ45	JUNCTION	184.79	2.00	0.0
MJ46	JUNCTION	181.56	2.00	0.0
MJ47	JUNCTION	182.83	2.00	0.0
MJ48	JUNCTION	176.45	2.00	0.0
MJ49	JUNCTION	182.90	2.00	0.0
MJ5	JUNCTION	183.63	2.00	0.0
MJ50	JUNCTION	182.60	2.00	0.0
MJ51	JUNCTION	181.03	2.00	0.0
MJ52	JUNCTION	182.59	2.00	0.0
MJ53	JUNCTION	182.25	2.00	0.0
MJ54	JUNCTION	182.45	2.00	0.0
MJ55	JUNCTION	178.53	2.00	0.0

MJ56	JUNCTION	182.92	2.00	0.0
MJ57	JUNCTION	178.83	2.00	0.0
MJ58	JUNCTION	182.42	2.00	0.0
MJ59	JUNCTION	181.95	2.00	0.0
MJ60	JUNCTION	180.01	2.00	0.0
MJ61	JUNCTION	180.74	2.00	0.0
MJ62	JUNCTION	183.87	2.00	0.0
MJ63	JUNCTION	182.23	2.00	0.0
MJ64	JUNCTION	182.17	2.00	0.0
MJ65	JUNCTION	182.48	2.00	0.0
MJ66	JUNCTION	180.29	2.00	0.0
MJ67	JUNCTION	185.99	2.00	0.0
MJ68	JUNCTION	184.22	2.00	0.0
MJ69	JUNCTION	182.30	2.00	0.0
MJ7	JUNCTION	186.59	2.00	0.0
MJ70	JUNCTION	183.26	2.00	0.0
MJ71	JUNCTION	179.00	2.00	0.0
MJ72	JUNCTION	182.44	2.00	0.0
MJ73	JUNCTION	182.35	2.00	0.0
MJ74	JUNCTION	182.65	2.00	0.0
MJ75	JUNCTION	182.97	2.00	0.0
MJ76	JUNCTION	183.74	2.00	0.0
MJ77	JUNCTION	182.36	2.00	0.0
MJ78	JUNCTION	183.13	2.00	0.0
MJ79	JUNCTION	182.65	2.02	0.0
MJ8	JUNCTION	189.00	2.00	0.0
MJ80	JUNCTION	182.72	2.00	0.0
MJ81	JUNCTION	183.15	2.00	0.0
MJ82	JUNCTION	182.69	2.00	0.0
MJ83	JUNCTION	182.48	2.00	0.0
MJ84	JUNCTION	185.65	2.00	0.0
MJ85	JUNCTION	183.89	2.00	0.0
MJ86	JUNCTION	184.35	2.00	0.0
MJ87	JUNCTION	183.32	2.00	0.0
MJ88	JUNCTION	183.05	2.00	0.0
MJ89	JUNCTION	182.76	2.00	0.0
MJ9	JUNCTION	178.63	2.00	0.0
MJ90	JUNCTION	181.67	2.00	0.0
MJ91	JUNCTION	184.14	2.00	0.0
MJ92	JUNCTION	185.97	2.00	0.0
MJ93	JUNCTION	184.97	2.00	0.0

MJ94	JUNCTION	184.52	2.00	0.0
MJ95	JUNCTION	181.16	2.00	0.0
MJ96	JUNCTION	182.91	2.00	0.0
MJ97	JUNCTION	182.44	2.00	0.0
MJ98	JUNCTION	183.37	2.00	0.0
MJ99	JUNCTION	185.38	2.00	0.0
OGS-	JUNCTION	180.49	1.51	0.0
RICE_POND_OUTLET	JUNCTION	180.82	1.22	0.0
OF10-	OUTFALL	0.00	0.00	0.0
OF11-M	OUTFALL	183.10	1.10	0.0
OF12-	OUTFALL	179.15	0.68	0.0
OF13-	OUTFALL	180.31	0.45	0.0
OF14-	OUTFALL	179.55	0.53	0.0
OF15-	OUTFALL	177.00	0.00	0.0
OF16-	OUTFALL	177.00	0.45	0.0
OF17-	OUTFALL	177.80	0.75	0.0
OF18-M	OUTFALL	179.15	0.00	0.0
OF19-	OUTFALL	178.15	0.82	0.0
OF1-M	OUTFALL	175.00	1.00	0.0
OF20-	OUTFALL	179.15	0.45	0.0
OF21-	OUTFALL	179.15	0.00	0.0
OF22_M	OUTFALL	181.25	1.10	0.0
OF23-	OUTFALL	0.00	0.00	0.0
OF24-	OUTFALL	177.26	0.60	0.0
OF25-	OUTFALL	177.59	0.25	0.0
OF26-M	OUTFALL	178.53	1.10	0.0
OF27-1	OUTFALL	177.18	0.82	0.0
OF27-M	OUTFALL	178.86	0.50	0.0
OF28-	OUTFALL	0.00	0.00	0.0
OF29-	OUTFALL	178.63	0.30	0.0
OF2-M	OUTFALL	177.10	1.10	0.0
OF2-M-	OUTFALL	177.10	1.10	0.0
OF3-	OUTFALL	176.00	0.45	0.0
OF30-M	OUTFALL	179.83	0.48	0.0
OF31-M	OUTFALL	181.38	1.10	0.0
OF32-M	OUTFALL	184.92	1.10	0.0
OF33-	OUTFALL	177.03	0.82	0.0
OF34-	OUTFALL	0.00	0.00	0.0
OF35-	OUTFALL	0.00	0.00	0.0
OF36-	OUTFALL	0.00	0.00	0.0
OF37-	OUTFALL	0.00	0.00	0.0

OF38-	OUTFALL	0.00	0.00	0.0
OF39-	OUTFALL	0.00	0.00	0.0
OF3-M	OUTFALL	177.73	0.48	0.0
OF40-	OUTFALL	0.00	0.00	0.0
OF41-	OUTFALL	0.00	0.00	0.0
OF42-	OUTFALL	0.00	0.00	0.0
OF43-	OUTFALL	0.00	0.00	0.0
OF44-	OUTFALL	0.00	0.00	0.0
OF45-	OUTFALL	0.00	0.00	0.0
OF46-	OUTFALL	0.00	0.00	0.0
OF47-	OUTFALL	0.00	0.00	0.0
OF48-	OUTFALL	0.00	0.00	0.0
OF49-	OUTFALL	0.00	0.00	0.0
OF4-M	OUTFALL	175.62	1.10	0.0
OF50	OUTFALL	0.00	0.00	0.0
OF51	OUTFALL	0.00	0.00	0.0
OF52	OUTFALL	0.00	0.00	0.0
OF53	OUTFALL	0.00	0.00	0.0
OF54	OUTFALL	0.00	0.00	0.0
OF55	OUTFALL	0.00	0.00	0.0
OF56	OUTFALL	0.00	0.00	0.0
OF57	OUTFALL	0.00	0.00	0.0
OF58	OUTFALL	0.00	0.00	0.0
OF59	OUTFALL	0.00	0.00	0.0
OF5-M	OUTFALL	182.86	1.10	0.0
OF6-	OUTFALL	175.50	0.38	0.0
OF60	OUTFALL	0.00	0.00	0.0
OF61	OUTFALL	0.00	0.00	0.0
OF62	OUTFALL	0.00	0.00	0.0
OF7-M	OUTFALL	177.13	1.10	0.0
OF8-	OUTFALL	176.00	0.15	0.0
OF9-M	OUTFALL	179.04	0.48	0.0
Gill_RD_Pond	STORAGE	176.65	2.85	0.0
Rice_Pond	STORAGE	179.25	4.75	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness

C_dummy	MJ48	OF1-M	CONDUIT	7.2	20.4772	0.0100
C1	J24	OF33-	CONDUIT	89.0	0.8236	0.0130
C100	MH_39	MH_47	CONDUIT	24.9	0.2366	0.0130
C106	MH_37	MH_38	CONDUIT	44.0	0.5205	0.0130
C108	CBMH_40	CBMH_41	CONDUIT	54.3	0.3717	0.0130
C110	CBMH_41	MH_45	CONDUIT	16.0	0.6109	0.0130
C111	CBMH_44	MH_45	CONDUIT	24.6	0.8692	0.0130
C113	MH_43	CBMH_44	CONDUIT	23.6	0.3733	0.0130
C114	CBMH_42	MH_43	CONDUIT	10.9	0.6398	0.0130
C115	J115	CBMH_42	CONDUIT	60.3	0.3733	0.0130
C116	MH_45	CBMH_46	CONDUIT	20.1	0.5367	0.0130
C118	CBMH_46	MH_47	CONDUIT	15.5	1.0454	0.0130
C119_1	CBMH_46	MH_47	CONDUIT	15.5	0.7550	0.0130
C119_2	MH_47	MH_67	CONDUIT	70.5	0.2921	0.0130
C123	MH_66	MH_67	CONDUIT	29.6	0.3513	0.0130
C124	MH_65	MH_66	CONDUIT	13.3	0.1802	0.0130
C125	MH_67	MH_68	CONDUIT	20.9	0.6846	0.0130
C126	MH_68	Rice_Pond	CONDUIT	6.4	0.3569	0.0130
C127	RICE_POND_OUTLET	MH_69	CONDUIT	56.2	0.8861	0.0130
C128	MH_69	MH_70	CONDUIT	68.2	0.7859	0.0130
C129	MH_70	OF14-	CONDUIT	15.0	0.8000	0.0130
C130	MH_64	MH_65	CONDUIT	81.8	0.3336	0.0130
C145	MH_56	MH_57	CONDUIT	60.6	0.4452	0.0130
C147	MH_57	MH_58	CONDUIT	13.0	0.6923	0.0130
C150	MH_58	MH_63	CONDUIT	18.3	0.5188	0.0130
C151	CBMH_62	MH_63	CONDUIT	16.2	0.5695	0.0130
C156	MH_61	CBMH_62	CONDUIT	90.9	0.5733	0.0130
C159	MH_59	MH_61	CONDUIT	34.7	0.6925	0.0130
C160	J106	MH_59	CONDUIT	30.5	0.4918	0.0130
C161	J105	J106	CONDUIT	66.0	0.5000	0.0130
C164	CBMH5	OF16-	CONDUIT	45.6	6.1581	0.0130
C165	J38	CBMH5	CONDUIT	22.7	0.8824	0.0130
C167	MH40	MH41	CONDUIT	49.1	0.3078	0.0130
C185	MH30	MH31	CONDUIT	37.4	0.1870	0.0130
C186	MH31	MH32	CONDUIT	50.8	0.2028	0.0130
C187	MH32	MH33	CONDUIT	15.1	0.2514	0.0130
C188	MH33	MH40	CONDUIT	109.6	0.2518	0.0130
C189	DCB72	MH37	CONDUIT	32.5	1.5263	0.0130
C190	MH37	MH38	CONDUIT	61.1	0.3337	0.0130
C193	MH38	MH39	CONDUIT	17.3	0.3808	0.0130
C194	MH39	MH40	CONDUIT	118.9	0.3961	0.0130

C2	MH_38	MH_39	CONDUIT	70.0	0.3500	0.0130
C200-	MH8	MH9	CONDUIT	36.4	0.6039	0.0130
C205	MH34	MH35	CONDUIT	23.5	0.2973	0.0130
C206	MH35	MH36	CONDUIT	24.6	0.2316	0.0130
C207	MH36	MH41	CONDUIT	28.7	0.2716	0.0130
C211	DICBMH42	MH42	CONDUIT	6.5	-12.8118	0.0130
C212	MH42	MH43	CONDUIT	68.8	0.1904	0.0130
C213	MH43	OF27-1	CONDUIT	52.8	0.1894	0.0130
C228	MH15_Main	MH6_Main	CONDUIT	16.9	1.4799	0.0130
C229	CB29	CB30	CONDUIT	6.2	1.7808	0.0130
C230	CB30_1	MH1_Main	CONDUIT	4.4	1.8111	0.0130
C231	CB33	MH2_Main	CONDUIT	2.5	-0.4040	0.0130
C232	CB31	CB32	CONDUIT	7.2	0.9773	0.0130
C233	CB32	MH2_Main	CONDUIT	12.5	0.5619	0.0130
C234	CB34	CB35	CONDUIT	6.7	1.4976	0.0130
C235	CB35	MH3_Main	CONDUIT	15.4	1.9516	0.0130
C239	CB42	MH5_Main	CONDUIT	15.1	1.3216	0.0130
C240	CB41	CB42	CONDUIT	6.9	2.8989	0.0130
C244	J49	MH15_Main	CONDUIT	6.0	2.1828	0.0130
C245	CB27	J48	CONDUIT	19.7	0.3548	0.0130
C246	J48	CBMH2	CONDUIT	23.9	2.5536	0.0130
C248	MH15	MH16	CONDUIT	44.7	0.4030	0.0130
C250	CB22	MH13	CONDUIT	9.6	10.4286	0.0130
C251	CB23	MH13	CONDUIT	9.8	1.0153	0.0130
C252	CB19	CB20	CONDUIT	15.2	1.4464	0.0130
C253	CB20	MH12	CONDUIT	15.9	0.8790	0.0130
C254	MH12	MH11	CONDUIT	12.7	7.2666	0.0130
C255	CB21	MH11	CONDUIT	3.3	9.6397	0.0130
C256	CB17	MH10	CONDUIT	13.1	1.2953	0.0130
C257	CB18	MH10	CONDUIT	2.9	3.4408	0.0130
C258	CB15	MH9	CONDUIT	9.3	0.2144	0.0130
C259	CB16	MH9	CONDUIT	4.3	2.3431	0.0130
C26	MH_11	MH_15	CONDUIT	56.2	0.5422	0.0130
C260	MH7	MH8	CONDUIT	81.0	0.4319	0.0130
C263	CBMH7	MH4	CONDUIT	22.6	1.2808	0.0130
C269	CBMH2	MH16	CONDUIT	20.1	3.1390	0.0130
C27	MH_14	MH_15	CONDUIT	97.1	0.8287	0.0130
C28	MH_15	MH_16	CONDUIT	22.7	0.6432	0.0130
C281	MH6	MH7	CONDUIT	43.9	0.4552	0.0130
C284	MH5	MH6	CONDUIT	23.2	0.3450	0.0130
C285	CBMH1	MH6	CONDUIT	41.3	0.3630	0.0130

C288	CBMH_1	MH_1	CONDUIT	47.1	0.4202	0.0130
C289	MH_1	MH_2	CONDUIT	75.0	0.7815	0.0130
C292	MH_2	OGS-	CONDUIT	18.2	0.4671	0.0130
C293	OGS-	OF13-	CONDUIT	18.7	0.9573	0.0130
C3	MH_17	MH_39	CONDUIT	58.3	0.4049	0.0100
C343	MH21	MH22	CONDUIT	21.6	0.1389	0.0130
C344	MH23	MH24	CONDUIT	93.3	0.1822	0.0130
C345	MH24	CB-58	CONDUIT	59.4	0.2357	0.0130
C346	MH25	MH26	CONDUIT	70.2	0.4845	0.0130
C347	MH26	OF24-	CONDUIT	50.3	4.9804	0.0130
C348	J125	J91	CONDUIT	8.0	-0.1248	0.0130
C349	J127	J125	CONDUIT	66.5	3.4622	0.0130
C350	J128	J127	CONDUIT	67.2	0.3125	0.0130
C351	J67	J70	CONDUIT	91.7	0.7678	0.0130
C352	J70	OF6-	CONDUIT	47.1	0.8940	0.0130
C353	J66	J116	CONDUIT	35.7	0.9794	0.0130
C4	MH_63	MH_64	CONDUIT	62.9	0.3243	0.0130
C437	J34	J128	CONDUIT	25.2	1.3320	0.0130
C48	MH_29	MH_30	CONDUIT	69.5	0.6041	0.0130
C5	MJ139	Gill_RD_Pond	CONDUIT	76.4	6.9284	0.0110
C50	MH_30	MH_37	CONDUIT	16.3	2.0267	0.0130
C53	MH_27	MH_37	CONDUIT	92.0	0.8152	0.0130
C54	MH_36	MH_37	CONDUIT	63.5	0.3592	0.0130
C6	J1	J7	CONDUIT	181.3	0.3365	0.0300
C653	MH11	MH13	CONDUIT	42.7	0.3981	0.0130
C655	MH3	MH4	CONDUIT	63.9	0.3132	0.0130
C656	MH2	MH3	CONDUIT	42.8	0.1401	0.0130
C657	MH13	CB26	CONDUIT	68.0	0.8672	0.0130
C658	MH13	MH14	CONDUIT	40.7	0.3932	0.0130
C660	MH9_Main	MH10_Main	CONDUIT	134.7	0.6089	0.0130
C662	MH6_Main	MH7_Main	CONDUIT	92.1	-0.0109	0.0130
C663	MH4_Main	MH5_Main	CONDUIT	85.2	0.9513	0.0130
C664	MH2_Main	MH3_Main	CONDUIT	67.3	0.7871	0.0130
C665	CB30	MH1_Main	CONDUIT	16.6	7.8707	0.0130
C666	MH16	OF17-	CONDUIT	30.3	0.6605	0.0130
C667	CBMH7_ON	CBMH8_ON	CONDUIT	93.3	0.4104	0.0130
C668	CBMH9_ON	CBMH10_Main	CONDUIT	10.0	31.7073	0.0130
C669	CBMH10_Main	OF19-	CONDUIT	19.7	6.4158	0.0130
C670	CBMH3_ON	CBMH4_ON	CONDUIT	68.5	0.3604	0.0130
C671	CBMH1_ON	CBMH2_ON	CONDUIT	105.9	0.2399	0.0130
C672	J78	J83	CONDUIT	190.5	0.0002	0.0130

C673	MH13_Main	MH13_Main_	CONDUIT	74.7	0.4015	0.0130
C674	J102	OF25-	CONDUIT	42.3	6.9030	0.0130
C685	J4	J5	CONDUIT	62.7	0.4560	0.0130
C686	J5	J12	CONDUIT	54.6	2.6223	0.0130
C687	J12	J15	CONDUIT	40.7	5.5862	0.0130
C688	J15	J20	CONDUIT	93.1	1.2852	0.0130
C689	J62	J24	CONDUIT	40.7	0.2749	0.0130
C690	J30	J5	CONDUIT	86.3	1.1007	0.0130
C7	J7	MJ112	CONDUIT	49.1	3.5856	0.0300
C700	MH8_Main	MH9_Main	CONDUIT	27.2	-0.1839	0.0130
C701	MH10_Main	MH11_Main	CONDUIT	69.8	0.6305	0.0130
C702	MH11_Main	OF3-	CONDUIT	7.4	4.5982	0.0130
C703	CBMH2_ON	CBMH3_ON	CONDUIT	90.8	0.2785	0.0130
C704	CBMH4_ON	CBMH5_ON	CONDUIT	27.1	-0.2586	0.0130
C705	CBMH5_ON	CBMH6_ON	CONDUIT	72.7	0.1114	0.0130
C707	CBMH6_ON	CBMH7_ON	CONDUIT	91.7	0.1592	0.0130
C708	CBMH8_ON	CBMH9_ON	CONDUIT	79.3	0.5004	0.0130
C709	J83	OF29-	CONDUIT	45.1	-396.0446	0.0130
C710	J95	J93	CONDUIT	10.7	2.0277	0.0130
C711	J93	J98	CONDUIT	79.8	1.2003	0.0130
C712	J101	J102	CONDUIT	64.9	0.7182	0.0130
C713	J98	J101	CONDUIT	58.9	0.6124	0.0130
C714	MH22	MH23	CONDUIT	57.9	-0.1556	0.0130
C715	MH25-1	MH25	CONDUIT	30.2	0.1987	0.0130
C716	MH9	MH10	CONDUIT	57.5	0.7128	0.0130
C717	MH4	MH8	CONDUIT	38.6	0.4399	0.0130
C718	MH1	MH2	CONDUIT	16.9	0.5316	0.0130
C727	J20	J24	CONDUIT	88.3	1.2954	0.0130
C734	J55	J62	CONDUIT	34.5	0.2264	0.0130
C735	J52	J55	CONDUIT	62.4	0.2034	0.0130
C736	J30	J31	CONDUIT	67.5	0.4398	0.0130
C737	J31	J36	CONDUIT	84.5	6.5747	0.0130
C738	J36	J42	CONDUIT	77.5	1.0928	0.0130
C739	J42	J43	CONDUIT	32.8	0.5860	0.0130
C740	J43	J50	CONDUIT	47.7	0.6264	0.0130
C741	J50	J24	CONDUIT	16.8	0.6248	0.0130
C751	MH7_Main	MH8_Main	CONDUIT	54.4	4.5484	0.0130
C752	MH5_Main	MH6_Main	CONDUIT	90.8	0.5617	0.0130
C753	MH3_Main	MH4_Main	CONDUIT	41.9	0.9067	0.0130
C754	MH1_Main	MH2_Main	CONDUIT	52.8	0.9467	0.0130
C755	MH14_Main	MH15_Main	CONDUIT	42.1	0.1425	0.0130

C756	MH13_Main_	MH14_Main	CONDUIT	18.2	0.1653	0.0130
C757	MH10	MH11	CONDUIT	41.1	0.4136	0.0130
C758	CB26	OF12-	CONDUIT	38.4	0.5024	0.0130
C759	J116	OF8-	CONDUIT	21.4	2.1075	0.0130
C760	J35	J34	CONDUIT	22.3	1.0632	0.0130
C762	J47	J125	CONDUIT	12.5	3.2016	0.0130
C763	J91	OF20-	CONDUIT	10.3	-7.5585	0.0130
C764	CB-58	MH25-1	CONDUIT	69.1	0.2460	0.0130
C765	J113	J110	CONDUIT	25.4	0.3945	0.0130
C766	J110	J101	CONDUIT	60.7	0.0889	0.0130
C767	MH14	MH15	CONDUIT	29.7	0.3700	0.0130
C77	MH_35	MH_36	CONDUIT	19.6	0.3563	0.0130
C8	J8	Rice_Pond	CONDUIT	36.1	2.4884	0.0110
C80	MH_34	MH_35	CONDUIT	63.7	0.5103	0.0130
C94	MH_16	MH_17	CONDUIT	104.8	0.4235	0.0130
CB72	MH41	Gill_RD_Pond	CONDUIT	58.9	0.8999	0.0130
MC_C6	MJ_	MJ64	CONDUIT	21.5	2.1384	0.0130
MC1	MJ1	MJ3	CONDUIT	135.2	0.0577	0.0130
MC10	MJ9	OF2-M-	CONDUIT	124.6	1.2312	0.0130
MC100	MJ81	MJ78	CONDUIT	11.0	0.1455	0.0130
MC101	MJ78	MJ90	CONDUIT	92.0	1.5904	0.0130
MC102	MJ80	MJ73	CONDUIT	32.3	1.1394	0.0130
MC103	MJ80	MJ83	CONDUIT	24.9	0.9719	0.0130
MC104	MJ82	MJ79	CONDUIT	7.9	0.5063	0.0130
MC105	MJ82	MJ74	CONDUIT	56.6	0.0707	0.0130
MC107	MJ84	MJ77	CONDUIT	36.5	9.0478	0.0130
MC108	MJ84	MJ91	CONDUIT	60.6	2.4876	0.0130
MC109	MJ84	MJ76	CONDUIT	61.1	3.1243	0.0130
MC11	MJ10	MJ14	CONDUIT	49.5	4.0700	0.0130
MC12	MJ10	MJ2	CONDUIT	159.9	3.5989	0.0130
MC120	MJ85	MJ74	CONDUIT	66.1	1.8778	0.0130
MC121	MJ85	MJ87	CONDUIT	41.9	1.3629	0.0130
MC122	MJ85	MJ81	CONDUIT	59.8	1.2392	0.0130
MC123	MJ93	MJ85	CONDUIT	57.7	1.8617	0.0130
MC124	MJ86	MJ80	CONDUIT	86.8	1.8805	0.0130
MC125	MJ88	MJ95	CONDUIT	403.1	0.4691	0.0130
MC126	MJ89	MJ83	CONDUIT	36.8	0.7609	0.0130
MC128	MJ91	MJ102	CONDUIT	82.5	1.5456	0.0130
MC129	MJ86	MJ91	CONDUIT	60.8	0.3536	0.0130
MC13	MJ11	MJ13	CONDUIT	28.6	0.4056	0.0130
MC130	MJ91	MJ97	CONDUIT	30.7	5.5591	0.0130

MC131	MJ92	MJ99	CONDUIT	33.3	1.7720	0.0130
MC132	MJ92	MJ122	CONDUIT	287.2	0.5975	0.0130
MC133	MJ92	MJ70	CONDUIT	133.7	2.0221	0.0130
MC135	MJ84	MJ94	CONDUIT	121.6	0.9268	0.0130
MC136	MJ95	MJ112	CONDUIT	81.9	0.6447	0.0130
MC137	MJ103	MJ96	CONDUIT	71.8	0.1267	0.0130
MC139	MJ98	MJ87	CONDUIT	106.9	0.0440	0.0130
MC14	MJ12	MJ3	CONDUIT	167.3	0.9635	0.0130
MC141	MJ101	MJ98	CONDUIT	20.7	1.5606	0.0130
MC142	MJ108	MJ98	CONDUIT	63.1	3.6601	0.0130
MC143	MJ99	MJ104	CONDUIT	59.7	1.9736	0.0130
MC144	MJ99	MJ107	CONDUIT	53.1	2.2812	0.0130
MC145	MJ100	OF9-M	CONDUIT	138.6	2.3246	0.0130
MC146	MJ103	MJ97	CONDUIT	29.3	1.9492	0.0130
MC147	MJ104	MJ116	CONDUIT	142.9	1.5579	0.0130
MC148	MJ115	MJ105	CONDUIT	61.4	1.5490	0.0130
MC149	MJ106	MJ102	CONDUIT	39.2	1.8115	0.0130
MC15	MJ14	MJ30	CONDUIT	22.9	0.5883	0.0130
MC150	MJ107	MJ129	CONDUIT	206.3	1.1586	0.0130
MC151	MJ104	MJ107	CONDUIT	29.0	0.1138	0.0130
MC152	MJ108	MJ93	CONDUIT	150.2	0.4727	0.0130
MC153	MJ108	MJ118	CONDUIT	62.4	1.5515	0.0130
MC154	MJ109	MJ114	CONDUIT	25.0	1.4442	0.0130
MC155	MJ109	MJ103	CONDUIT	37.9	4.9930	0.0130
MC156	MJ110	MJ128	CONDUIT	118.5	0.0262	0.0130
MC157	MJ111	MJ110	CONDUIT	74.0	0.6000	0.0130
MC158	MJ111	MJ112	CONDUIT	58.1	3.3254	0.0130
MC159	MJ112	MJ119	CONDUIT	53.0	0.7963	0.0130
MC16	MJ15	MJ36	CONDUIT	260.4	2.2510	0.0130
MC160	MJ113	MJ102	CONDUIT	59.9	2.2928	0.0130
MC161	MJ113	MJ103	CONDUIT	86.8	1.4183	0.0130
MC162	MJ114	MJ120	CONDUIT	85.2	0.7148	0.0130
MC163	MJ114	MJ101	CONDUIT	125.8	0.6717	0.0130
MC164	MJ117	MJ115	CONDUIT	27.5	0.4255	0.0130
MC165	MJ116	MJ129	CONDUIT	80.1	0.2459	0.0130
MC166	MJ117	MJ131	CONDUIT	101.8	1.2653	0.0130
MC167	MJ117	MJ90	CONDUIT	147.0	2.6315	0.0130
MC168	MJ118	MJ105	CONDUIT	150.7	0.1573	0.0130
MC169	MJ119	OF26-M	CONDUIT	75.5	2.6287	0.0130
MC17	MJ15	MJ7	CONDUIT	93.9	2.0697	0.0130
MC170	MJ113	MJ120	CONDUIT	61.3	0.5073	0.0130

MC171	MJ121	MJ115	CONDUIT	74.5	1.6620	0.0130
MC172	MJ122	MJ100	CONDUIT	133.6	1.4897	0.0130
MC173	MJ123	MJ114	CONDUIT	62.5	4.1716	0.0130
MC174	MJ123	MJ127	CONDUIT	79.9	1.5985	0.0130
MC175	MJ123	MJ130	CONDUIT	62.4	1.7150	0.0130
MC176	MJ123	MJ108	CONDUIT	146.0	1.0035	0.0130
MC177	MJ124	MJ119	CONDUIT	39.3	0.4300	0.0130
MC178	MJ125	MJ118	CONDUIT	59.8	2.3468	0.0130
MC179	MJ126	MJ131	CONDUIT	44.9	2.0049	0.0130
MC18	MJ16	MJ13	CONDUIT	89.0	0.0494	0.0130
MC180	MJ126	MJ122	CONDUIT	88.7	1.0158	0.0130
MC181	MJ127	MJ120	CONDUIT	62.4	3.1057	0.0130
MC182_1	MJ128	MH41_S	CONDUIT	49.8	0.4619	0.0130
MC182_2	MH36_S	MH34_S	CONDUIT	36.1	1.3508	0.0130
MC182_3	MH36_S	MH41_S	CONDUIT	28.8	0.3848	0.0130
MC182_5	MH34_S	MJ124	CONDUIT	33.6	3.2856	0.0130
MC183	MJ129	MJ132	CONDUIT	28.7	0.1324	0.0130
MC184	MJ130	MJ118	CONDUIT	143.9	0.9472	0.0130
MC185	MJ131	MJ135	CONDUIT	67.8	1.4751	0.0130
MC186	MJ131	MJ136	CONDUIT	53.3	1.6663	0.0130
MC187	MJ133	MJ125	CONDUIT	98.4	0.4624	0.0130
MC188	MJ147	MJ134	CONDUIT	173.9	0.9328	0.0130
MC189	MJ136	MJ134	CONDUIT	97.4	2.0292	0.0130
MC19	MJ17	MJ19	CONDUIT	20.2	4.1620	0.0130
MC190	MJ136	MJ148	CONDUIT	187.8	0.1874	0.0130
MC191	MJ137	MJ134	CONDUIT	270.3	0.3862	0.0130
MC192	MJ138	MJ130	CONDUIT	82.2	2.1465	0.0130
MC193	MJ138	MJ143	CONDUIT	110.3	3.3328	0.0130
MC194_1	MH37_S	MJ139	CONDUIT	27.9	1.4505	0.0130
MC194_2	MH37_S	MJ140	CONDUIT	79.1	0.2034	0.0130
MC195	MJ140	MJ128	CONDUIT	131.2	0.0663	0.0130
MC196	MJ149	MH2_S	CONDUIT	23.9	0.2093	0.0130
MC197	MH3_S	MH2_S	CONDUIT	42.6	0.3760	0.0130
MC198	MJ143	MH3_S	CONDUIT	68.5	0.0730	0.0130
MC199	MJ143	MH8_S	CONDUIT	28.8	0.6939	0.0130
MC2	MJ2	MJ1	CONDUIT	43.3	0.6537	0.0130
MC20	MJ25	MJ18	CONDUIT	41.3	0.2322	0.0130
MC200	MH8_S	MH9__S	CONDUIT	41.7	0.5519	0.0130
MC201	MH9__S	MH10__S	CONDUIT	57.2	1.0142	0.0130
MC202	MH10__S	MH11__S	CONDUIT	42.2	0.9005	0.0130
MC203	MJ144	MJ145	CONDUIT	172.1	0.1859	0.0130

MC204	MJ144	MJ124	CONDUIT	199.9	1.2367	0.0130
MC205	MJ145	OF22_M	CONDUIT	55.0	2.5754	0.0130
MC206	MJ147	MH21_S	CONDUIT	67.2	0.3124	0.0130
MC207	MH21_S	MJ146	CONDUIT	140.1	0.3127	0.0130
MC208	MJ148	MJ147	CONDUIT	23.7	0.0084	0.0130
MC209	MJ150	MJ151	CONDUIT	45.7	2.3179	0.0130
MC21	MJ19	OF4-M	CONDUIT	39.7	13.9110	0.0130
MC210	MJ150	MH8_S	CONDUIT	139.7	0.3442	0.0130
MC211	MJ151	OF11-M	CONDUIT	12.4	4.6987	0.0130
MC212	MJ152	MJ148	CONDUIT	288.9	0.2388	0.0130
MC213	MJ153	MJ152	CONDUIT	245.8	0.2522	0.0130
MC214_1	MJ154	J8	CONDUIT	73.9	0.1056	0.0130
MC214_2	J8	MJ153	CONDUIT	72.7	0.1059	0.0130
MC215	MJ155	MJ154	CONDUIT	125.0	0.5648	0.0130
MC216	MJ156	MJ155	CONDUIT	105.8	0.6323	0.0130
MC217	MJ156	MJ154	CONDUIT	187.0	0.7353	0.0130
MC218	MJ157	MJ152	CONDUIT	486.8	0.5156	0.0130
MC219	MJ135	MJ142	CONDUIT	72.7	0.8639	0.0130
MC22	MJ20	MJ32	CONDUIT	77.6	1.7280	0.0130
MC220	MJ135	MH11__S	CONDUIT	42.3	1.1336	0.0130
MC221	MJ53	MJ61	CONDUIT	58.5	2.5772	0.0130
MC223	MJ53	MJ46	CONDUIT	55.3	1.2482	0.0130
MC224	MJ54	MJ37	CONDUIT	94.3	4.0462	0.0130
MC225	MJ68	MJ75	CONDUIT	37.1	3.3579	0.0130
MC226	MJ79	MJ72	CONDUIT	28.7	0.7328	0.0130
MC227	MJ83	MJ72	CONDUIT	90.7	0.0441	0.0130
MC228	MJ89	MJ82	CONDUIT	90.5	0.0774	0.0130
MC229	MJ96	MJ89	CONDUIT	75.8	0.2044	0.0130
MC23	MJ21	MJ13	CONDUIT	131.7	0.2475	0.0130
MC230	MJ98	MJ89	CONDUIT	60.9	0.9969	0.0130
MC231	MJ93	MJ105	CONDUIT	63.5	0.7798	0.0130
MC232	MJ18	MJ26	CONDUIT	61.8	0.7819	0.0130
MC24	MJ22	OF32-M	CONDUIT	84.3	1.7084	0.0130
MC25	MJ23	MJ21	CONDUIT	34.3	0.9826	0.0130
MC26	MJ45	MJ25	CONDUIT	60.8	2.1998	0.0130
MC27	MJ26	OF31-M	CONDUIT	95.3	1.5725	0.0130
MC28	MJ27	OF2-M	CONDUIT	95.8	2.8401	0.0130
MC29	MJ28	MJ32	CONDUIT	40.6	2.8199	0.0130
MC3	MJ3	OF7-M	CONDUIT	20.9	1.2253	0.0130
MC30	MJ28	MJ31	CONDUIT	53.6	3.7550	0.0130
MC31	MJ17	MJ29	CONDUIT	88.9	0.8887	0.0130

MC32	MJ30	MJ31	CONDUIT	78.6	0.3522	0.0130
MC33	MJ31	MJ1	CONDUIT	86.7	4.1641	0.0130
MC34	MJ32	MJ57	CONDUIT	101.0	3.0805	0.0130
MC35	MJ33	MJ29	CONDUIT	32.9	1.9730	0.0130
MC36	MJ33	MJ38	CONDUIT	47.9	0.0397	0.0130
MC37	MJ34	MJ21	CONDUIT	54.9	1.3972	0.0130
MC38	MJ35	MJ27	CONDUIT	41.9	0.7995	0.0130
MC39	MJ36	MJ24	CONDUIT	173.3	0.4963	0.0130
MC4	MJ4	MJ2	CONDUIT	63.0	3.0989	0.0130
MC40	MJ158	MJ44	CONDUIT	40.0	0.2123	0.0130
MC41	MJ37	MJ48	CONDUIT	129.5	1.6902	0.0130
MC42	MJ39	MJ47	CONDUIT	30.9	3.6237	0.0130
MC43	MJ39	MJ29	CONDUIT	79.1	3.6801	0.0130
MC44	MJ40	MJ19	CONDUIT	124.8	1.5467	0.0130
MC45	MJ40	MJ47	CONDUIT	55.7	0.1616	0.0130
MC46	MJ41	MJ25	CONDUIT	69.8	0.0487	0.0130
MC47	MJ42	MJ35	CONDUIT	55.8	0.8961	0.0130
MC48	MJ43	MJ22	CONDUIT	206.3	0.2385	0.0130
MC49	MJ43	MJ67	CONDUIT	226.5	0.2927	0.0130
MC5	MJ5	MJ10	CONDUIT	19.1	0.6550	0.0130
MC50	MJ44	MJ26	CONDUIT	144.4	0.3587	0.0130
MC51	MJ45	MJ26	CONDUIT	67.7	2.8309	0.0130
MC52	MJ45	MJ20	CONDUIT	51.3	2.9504	0.0130
MC53	MJ46	MJ35	CONDUIT	63.7	2.2062	0.0130
MC54	MJ49	MJ47	CONDUIT	23.3	0.3004	0.0130
MC55	MJ49	MJ58	CONDUIT	54.2	0.8875	0.0130
MC56	MJ56	MJ49	CONDUIT	45.8	0.0371	0.0130
MC57	MJ49	MJ38	CONDUIT	67.0	1.8361	0.0130
MC58	MJ50	MJ52	CONDUIT	27.6	0.0435	0.0130
MC59	MJ51	MJ55	CONDUIT	99.2	2.5240	0.0130
MC6	MJ13	OF3-M	CONDUIT	79.6	1.0905	0.0130
MC62	MJ54	MJ61	CONDUIT	36.0	4.7442	0.0130
MC64	MJ55	MJ48	CONDUIT	45.0	4.6316	0.0130
MC65	MJ56	MJ63	CONDUIT	58.9	1.1665	0.0130
MC66	MJ56	MJ34	CONDUIT	146.2	2.2057	0.0130
MC67	MJ56	MJ74	CONDUIT	85.4	0.3126	0.0130
MC68	MJ57	MJ3	CONDUIT	39.4	3.6608	0.0130
MC69	MJ52	MJ58	CONDUIT	38.1	0.4514	0.0130
MC7	MJ7	MJ22	CONDUIT	333.2	0.1279	0.0130
MC70	MJ60	MJ55	CONDUIT	42.2	3.5069	0.0130
MC71	MJ62	MJ69	CONDUIT	71.4	2.2078	0.0130

MC72	MJ62	MJ51	CONDUIT	50.3	5.6551	0.0130
MC73	MJ63	MJ42	CONDUIT	112.4	1.4014	0.0130
MC74	MJ63	MJ64	CONDUIT	18.0	0.3333	0.0130
MC75	MJ72	MJ63	CONDUIT	54.8	0.3832	0.0130
MC76	MJ_	MJ53	CONDUIT	34.0	1.1168	0.0130
MC77	MJ65	MJ73	CONDUIT	28.0	0.4357	0.0130
MC78	MJ65	MJ61	CONDUIT	37.1	4.6736	0.0130
MC79	MJ66	MJ55	CONDUIT	57.6	3.0587	0.0130
MC8	MJ8	MJ36	CONDUIT	243.0	2.6058	0.0130
MC80	MJ67	MJ92	CONDUIT	237.2	0.0105	0.0130
MC82	MJ68	MJ59	CONDUIT	52.0	4.3676	0.0130
MC83	MJ68	MJ59	CONDUIT	83.2	2.7282	0.0130
MC84	MJ69	MJ60	CONDUIT	54.2	4.2252	0.0130
MC85	MJ70	MJ100	CONDUIT	282.1	0.3555	0.0130
MC86	MJ70	OF30-M	CONDUIT	133.3	2.5778	0.0130
MC87	MJ71	MJ48	CONDUIT	114.6	2.2320	0.0130
MC89	MJ73	MJ64	CONDUIT	74.1	0.2483	0.0130
MC9	MJ8	MJ15	CONDUIT	154.2	0.3048	0.0130
MC90	MJ78	MJ75	CONDUIT	16.0	1.0251	0.0130
MC91	MJ75	OF5-M	CONDUIT	38.8	0.2835	0.0130
MC92	MJ76	MJ69	CONDUIT	35.2	4.0943	0.0130
MC93	MJ76	MJ65	CONDUIT	84.9	1.4866	0.0130
MC97	MJ86	MJ76	CONDUIT	59.5	1.0353	0.0130
MC98	MJ77	MJ66	CONDUIT	50.5	4.0925	0.0130
MC99	MJ77	MJ69	CONDUIT	59.5	0.0992	0.0130
MJ-C5	J1	J2	CONDUIT	172.3	0.0754	0.0300
MJ-C6	J2	J3	CONDUIT	167.9	0.7682	0.0300
MJ-C7	J3	J6	CONDUIT	110.4	0.3169	0.0300
MJ-C8	J6	OF27-M	CONDUIT	80.0	2.9621	0.0300
OL5	Gill_RD_Pond	DICBMH42	ORIFICE			
OL1	Rice_Pond	RICE_POND_OUTLET	OUTLET			
OL10	MH3_S	MH3	OUTLET			
OL11	MJ148	CBMH5	OUTLET			
OL12	MJ147	J128	OUTLET			
OL13	MH21_S	MH21	OUTLET			
OL14	MJ146	MH24	OUTLET			
OL15	MH9__S	MH9	OUTLET			
OL16	MJ21	MH9_Main	OUTLET			
OL17	MJ13	MH10_Main	OUTLET			
OL18	MJ151	MH5	OUTLET			
OL19	MJ112	MH30	OUTLET			

OL2	MJ135	MH13	OUTLET
OL20	MH34_S	MH34	OUTLET
OL21	MH37_S	MH37	OUTLET
OL22	MJ56	MH6_Main	OUTLET
OL23	MJ74	MH5_Main	OUTLET
OL24	MJ93	MH3_Main	OUTLET
OL25	MJ105	MH2_Main	OUTLET
OL26	MJ115	MH1_Main	OUTLET
OL27	MJ154	MH_39	OUTLET
OL28	MJ134	J125	OUTLET
OL29	MJ142	CB26	OUTLET
OL3	MH2_S	MH2	OUTLET
OL30	MJ67	CBMH1_ON	OUTLET
OL31	MJ15	J5	OUTLET
OL32	MJ36	J24	OUTLET
OL33	MJ8	J31	OUTLET
OL34	MJ24	J52	OUTLET
OL35	MJ104	J95	OUTLET
OL36	MJ107	J113	OUTLET
OL37	MJ129	J101	OUTLET
OL38	MJ132	J102	OUTLET
OL39	MJ92	CBMH5_ON	OUTLET
OL4	MJ143	MH4	OUTLET
OL40	MJ122	CBMH8_ON	OUTLET
OL41	MJ126	CBMH9_ON	OUTLET
OL42	MJ145	CB-58	OUTLET
OL43	MJ144	MH26	OUTLET
OL44	MJ156	MH_15	OUTLET
OL45	MJ155	MH_37	OUTLET
OL46	MJ153	MH_65	OUTLET
OL47	MJ73	MH13_Main	OUTLET
OL48	MJ63	MH14_Main	OUTLET
OL49	MJ64	MH13_Main_	OUTLET
OL50	MJ140	MH39	OUTLET
OL51	MJ128	MH40	OUTLET
OL52	MJ110	MH32	OUTLET
OL53	MJ3	J70	OUTLET
OL6	MJ131	CBMH2	OUTLET
OL7	MJ152	MH_56	OUTLET
OL8	MH10__S	MH10	OUTLET
OL9	MH11__S	MH11	OUTLET

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C_dummy	TRIANGULAR	1.00	0.50	0.22	1.00	1	8.34
C1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.30
C100	CIRCULAR	0.82	0.53	0.21	0.82	1	0.70
C106	CIRCULAR	0.68	0.36	0.17	0.68	1	0.61
C108	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C110	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C111	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C113	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C114	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C115	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C116	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C118	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C119_1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.25
C119_2	CIRCULAR	0.82	0.53	0.21	0.82	1	0.78
C123	CIRCULAR	0.45	0.16	0.11	0.45	1	0.17
C124	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C125	CIRCULAR	0.90	0.64	0.23	0.90	1	1.50
C126	CIRCULAR	0.90	0.64	0.23	0.90	1	1.08
C127	CIRCULAR	0.53	0.22	0.13	0.53	1	0.40
C128	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C129	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C130	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C145	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C147	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C150	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C151	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C156	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C159	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C160	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C161	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C164	CIRCULAR	0.45	0.16	0.11	0.45	1	0.71
C165	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C167	CIRCULAR	0.53	0.22	0.13	0.53	1	0.24

C185	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C186	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C187	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C188	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C189	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C190	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C193	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C194	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C2	CIRCULAR	0.68	0.36	0.17	0.68	1	0.50
C200-	CIRCULAR	0.60	0.28	0.15	0.60	1	0.48
C205	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C206	CIRCULAR	0.45	0.16	0.11	0.45	1	0.14
C207	CIRCULAR	0.45	0.16	0.11	0.45	1	0.15
C211	CIRCULAR	0.82	0.53	0.21	0.82	1	5.14
C212	CIRCULAR	0.82	0.53	0.21	0.82	1	0.63
C213	CIRCULAR	0.82	0.53	0.21	0.82	1	0.62
C228	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C229	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C230	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C231	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C232	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C233	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C234	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C235	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C239	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C240	CIRCULAR	0.30	0.07	0.07	0.30	1	0.16
C244	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C245	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C246	CIRCULAR	0.53	0.22	0.13	0.53	1	0.69
C248	CIRCULAR	0.75	0.44	0.19	0.75	1	0.71
C250	CIRCULAR	0.30	0.07	0.07	0.30	1	0.31
C251	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C252	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C253	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C254	CIRCULAR	0.30	0.07	0.07	0.30	1	0.26
C255	CIRCULAR	0.30	0.07	0.07	0.30	1	0.30
C256	CIRCULAR	0.38	0.11	0.09	0.38	1	0.20
C257	CIRCULAR	0.30	0.07	0.07	0.30	1	0.18
C258	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C259	CIRCULAR	0.30	0.07	0.07	0.30	1	0.15
C26	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21

C260	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C263	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C269	CIRCULAR	0.38	0.11	0.09	0.38	1	0.31
C27	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C28	CIRCULAR	0.60	0.28	0.15	0.60	1	0.49
C281	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C284	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C285	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C288	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C289	CIRCULAR	0.45	0.16	0.11	0.45	1	0.25
C292	CIRCULAR	0.45	0.16	0.11	0.45	1	0.19
C293	CIRCULAR	0.45	0.16	0.11	0.45	1	0.28
C3	CIRCULAR	0.60	0.28	0.15	0.60	1	0.51
C343	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C344	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C345	CIRCULAR	0.53	0.22	0.13	0.53	1	0.21
C346	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C347	CIRCULAR	0.60	0.28	0.15	0.60	1	1.37
C348	CIRCULAR	0.45	0.16	0.11	0.45	1	0.10
C349	CIRCULAR	0.40	0.13	0.10	0.40	1	0.39
C350	CIRCULAR	0.40	0.13	0.10	0.40	1	0.12
C351	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C352	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C353	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C4	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C437	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C48	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C5	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	13.42
C50	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C53	CIRCULAR	0.60	0.28	0.15	0.60	1	0.55
C54	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C6	TRIANGULAR	1.00	1.20	0.38	2.40	1	1.23
C653	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C655	CIRCULAR	0.60	0.28	0.15	0.60	1	0.34
C656	CIRCULAR	0.60	0.28	0.15	0.60	1	0.23
C657	CIRCULAR	0.68	0.36	0.17	0.68	1	0.78
C658	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C660	CIRCULAR	0.45	0.16	0.11	0.45	1	0.22
C662	CIRCULAR	0.45	0.16	0.11	0.45	1	0.03
C663	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C664	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09

C665	CIRCULAR	0.30	0.07	0.07	0.30	1	0.27
C666	CIRCULAR	0.75	0.44	0.19	0.75	1	0.90
C667	CIRCULAR	0.60	0.28	0.15	0.60	1	0.39
C668	CIRCULAR	0.75	0.44	0.19	0.75	1	6.27
C669	CIRCULAR	0.82	0.53	0.21	0.82	1	3.64
C670	CIRCULAR	0.60	0.28	0.15	0.60	1	0.37
C671	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C672	CIRCULAR	0.30	0.07	0.07	0.30	1	0.00
C673	CIRCULAR	0.45	0.16	0.11	0.45	1	0.18
C674	CIRCULAR	0.25	0.05	0.06	0.25	1	0.16
C685	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C686	CIRCULAR	0.38	0.11	0.09	0.38	1	0.28
C687	CIRCULAR	0.38	0.11	0.09	0.38	1	0.41
C688	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C689	CIRCULAR	0.68	0.36	0.17	0.68	1	0.44
C690	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C7	CIRCULAR	1.00	0.79	0.25	1.00	1	1.97
C700	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C701	CIRCULAR	0.45	0.16	0.11	0.45	1	0.23
C702	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C703	CIRCULAR	0.47	0.18	0.12	0.47	1	0.17
C704	CIRCULAR	0.60	0.28	0.15	0.60	1	0.31
C705	CIRCULAR	0.60	0.28	0.15	0.60	1	0.20
C707	CIRCULAR	0.60	0.28	0.15	0.60	1	0.25
C708	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C709	CIRCULAR	0.30	0.07	0.07	0.30	1	1.92
C710	CIRCULAR	0.25	0.05	0.06	0.25	1	0.08
C711	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C712	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C713	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C714	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C715	CIRCULAR	0.60	0.28	0.15	0.60	1	0.27
C716	CIRCULAR	0.60	0.28	0.15	0.60	1	0.52
C717	CIRCULAR	0.60	0.28	0.15	0.60	1	0.41
C718	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C727	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C734	CIRCULAR	0.68	0.36	0.17	0.68	1	0.40
C735	CIRCULAR	0.68	0.36	0.17	0.68	1	0.38
C736	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C737	CIRCULAR	0.38	0.11	0.09	0.38	1	0.45
C738	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18

C739	CIRCULAR	0.53	0.22	0.13	0.53	1	0.33
C740	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C741	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C751	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C752	CIRCULAR	0.35	0.10	0.09	0.35	1	0.11
C753	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C754	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C755	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C756	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C757	CIRCULAR	0.75	0.44	0.19	0.75	1	0.72
C758	CIRCULAR	0.68	0.36	0.17	0.68	1	0.60
C759	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C760	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C762	CIRCULAR	0.30	0.07	0.07	0.30	1	0.17
C763	CIRCULAR	0.45	0.16	0.11	0.45	1	0.78
C764	CIRCULAR	0.60	0.28	0.15	0.60	1	0.30
C765	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C766	CIRCULAR	0.25	0.05	0.06	0.25	1	0.02
C767	CIRCULAR	0.75	0.44	0.19	0.75	1	0.68
C77	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	8.04
C80	CIRCULAR	0.45	0.16	0.11	0.45	1	0.20
C94	CIRCULAR	0.60	0.28	0.15	0.60	1	0.40
CB72	CIRCULAR	0.53	0.22	0.13	0.53	1	0.41
MC_C6	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	140.85
MC1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	23.13
MC10	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.88
MC100	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	36.73
MC101	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.47
MC102	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	102.81
MC103	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.96
MC104	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.54
MC105	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	25.61
MC107	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	289.72
MC108	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	151.91
MC109	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	170.25
MC11	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.32
MC12	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	182.72
MC120	Main_Street	0.35	4.72	0.25	23.30	1	19.72
MC121	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	112.45
MC122	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.22

MC123	Main_Street	0.35	4.72	0.25	23.30	1	19.63
MC124	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	132.08
MC125	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.97
MC126	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	84.02
MC128	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.75
MC129	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.28
MC13	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	61.34
MC130	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	227.10
MC131	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	22.98
MC132	Ontario_Street	0.30	3.89	0.21	19.00	1	8.23
MC133	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	136.97
MC135	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	92.73
MC136	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.34
MC137	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	34.29
MC139	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.20
MC14	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.54
MC141	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.32
MC142	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.27
MC143	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.25
MC144	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.07
MC145	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.32
MC146	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	134.47
MC147	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.22
MC148	Main_Street	0.35	4.72	0.25	23.30	1	17.91
MC149	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	129.64
MC15	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	73.88
MC150	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	103.67
MC151	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	32.49
MC152	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	66.22
MC153	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.97
MC154	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	115.75
MC155	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	215.22
MC156	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	15.58
MC157	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	74.61
MC158	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.64
MC159	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.95
MC16	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	144.51
MC160	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	145.84
MC161	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.71
MC162	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	81.43
MC163	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.94

MC164	Main_Street	0.35	4.72	0.25	23.30	1	9.38
MC165	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.56
MC166	Main_Street	0.35	4.72	0.25	23.30	1	16.18
MC167	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.25
MC168	Main_Street	0.35	4.72	0.25	23.30	1	5.71
MC169	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.16
MC17	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	138.57
MC170	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.61
MC171	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	124.17
MC172	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	21.07
MC173	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.73
MC174	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.78
MC175	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.14
MC176	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.49
MC177	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.16
MC178	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	147.55
MC179	Ontario_Street	0.30	3.89	0.21	19.00	1	15.08
MC18	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.42
MC180	Ontario_Street	0.30	3.89	0.21	19.00	1	10.74
MC181	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.74
MC182_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.46
MC182_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	111.95
MC182_3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.75
MC182_5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	174.59
MC183	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	35.05
MC184	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.74
MC185	Ontario_Street	0.30	3.89	0.21	19.00	1	12.94
MC186	Main_Street	0.35	4.72	0.25	23.30	1	18.57
MC187	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.50
MC188	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.02
MC189	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.59
MC19	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.50
MC190	Ontario_Street	0.30	3.89	0.21	19.00	1	4.61
MC191	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.86
MC192	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	141.11
MC193	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.84
MC194_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	116.00
MC194_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.44
MC195	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	24.80
MC196	Ontario_Street	0.30	3.89	0.21	19.00	1	4.87
MC197	Ontario_Street	0.30	3.89	0.21	19.00	1	6.53

MC198	Ontario_Street	0.30	3.89	0.21	19.00	1	2.88
MC199	Ontario_Street	0.30	3.89	0.21	19.00	1	8.87
MC2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.88
MC20	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	46.41
MC200	Ontario_Street	0.30	3.89	0.21	19.00	1	7.91
MC201	Ontario_Street	0.30	3.89	0.21	19.00	1	10.73
MC202	Ontario_Street	0.30	3.89	0.21	19.00	1	10.11
MC203	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	41.53
MC204	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.11
MC205	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.57
MC206	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.84
MC207	Gill_Rd	0.30	4.92	0.20	24.00	1	7.28
MC208	Gill_Rd	0.30	4.92	0.20	24.00	1	1.20
MC209	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	146.64
MC21	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	359.24
MC210	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	56.51
MC211	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.79
MC212	Main_Street	0.35	4.72	0.25	23.30	1	7.03
MC213	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.37
MC214_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.30
MC214_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.34
MC215	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	72.39
MC216	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	76.59
MC217	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.59
MC218	Main_Street	0.35	4.72	0.25	23.30	1	10.33
MC219	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	89.52
MC22	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.62
MC220	Ontario_Street	0.30	3.89	0.21	19.00	1	11.34
MC221	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.63
MC223	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	19.28
MC224	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	193.75
MC225	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	176.50
MC226	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.45
MC227	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.22
MC228	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	26.79
MC229	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.54
MC23	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.59
MC230	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.17
MC231	Main_Street	0.35	4.72	0.25	23.30	1	12.71
MC232	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.17
MC24	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.90

MC25	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	95.47
MC26	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	142.86
MC27	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.78
MC28	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.32
MC29	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	161.74
MC3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.62
MC30	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	186.64
MC31	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.80
MC32	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.16
MC33	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.55
MC34	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.05
MC35	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	135.29
MC36	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	19.18
MC37	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	20.40
MC38	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	86.13
MC39	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	67.85
MC4	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.56
MC40	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	44.38
MC41	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.22
MC42	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	183.35
MC43	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.77
MC44	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.79
MC45	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	38.72
MC46	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.25
MC47	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	91.18
MC48	Ontario_Street	0.30	3.89	0.21	19.00	1	5.20
MC49	Ontario_Street	0.30	3.89	0.21	19.00	1	5.76
MC5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.95
MC50	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.69
MC51	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.06
MC52	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	165.44
MC53	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.06
MC54	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	52.79
MC55	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.74
MC56	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	18.56
MC57	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	130.52
MC58	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.08
MC59	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	153.02
MC6	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	18.02
MC62	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	209.79
MC64	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	207.29

MC65	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	104.03
MC66	Main_Street	0.35	4.72	0.25	23.30	1	21.37
MC67	Main_Street	0.35	4.72	0.25	23.30	1	8.05
MC68	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.29
MC69	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	64.72
MC7	Ontario_Street	0.30	3.89	0.21	19.00	1	3.81
MC70	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	180.37
MC71	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.12
MC72	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	229.05
MC73	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.02
MC74	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	55.61
MC75	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.63
MC76	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	101.79
MC77	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.58
MC78	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.23
MC79	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	168.45
MC8	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	155.48
MC80	Ontario_Street	0.30	3.89	0.21	19.00	1	1.09
MC82	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	201.29
MC83	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	159.09
MC84	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	197.98
MC85	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.43
MC86	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	27.71
MC87	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.90
MC89	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.00
MC9	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.18
MC90	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	97.52
MC91	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	51.29
MC92	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.90
MC93	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	117.44
MC97	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	98.01
MC98	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.85
MC99	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	30.33
MJ-C5	TRIANGULAR	0.50	0.60	0.23	2.40	1	0.21
MJ-C6	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	7.81
MJ-C7	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.05
MJ-C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	3.22

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Transect Summary
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Transect Gill_Rd
Area:

0.0010	0.0039	0.0088	0.0156	0.0244
0.0351	0.0478	0.0624	0.0790	0.0976
0.1171	0.1366	0.1561	0.1756	0.1951
0.2146	0.2341	0.2537	0.2732	0.2927
0.3122	0.3317	0.3512	0.3707	0.3902
0.4100	0.4300	0.4505	0.4714	0.4927
0.5143	0.5364	0.5588	0.5817	0.6049
0.6285	0.6525	0.6769	0.7017	0.7268
0.7524	0.7783	0.8047	0.8314	0.8585
0.8860	0.9140	0.9422	0.9709	1.0000

Hrad:

0.0147	0.0294	0.0441	0.0588	0.0736
0.0883	0.1030	0.1177	0.1324	0.1471
0.1764	0.2056	0.2348	0.2640	0.2931
0.3222	0.3512	0.3802	0.4091	0.4380
0.4669	0.4957	0.5245	0.5532	0.5819
0.5995	0.6170	0.6344	0.6517	0.6689
0.6861	0.7031	0.7201	0.7370	0.7539
0.7706	0.7873	0.8040	0.8206	0.8371
0.8536	0.8700	0.8864	0.9028	0.9191
0.9353	0.9516	0.9677	0.9839	1.0000

Width:

0.0667	0.1333	0.2000	0.2667	0.3333
0.4000	0.4667	0.5333	0.6000	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6800	0.6933	0.7067	0.7200	0.7333
0.7467	0.7600	0.7733	0.7867	0.8000
0.8133	0.8267	0.8400	0.8533	0.8667
0.8800	0.8933	0.9067	0.9200	0.9333
0.9467	0.9600	0.9733	0.9867	1.0000

Transect Local_Curb_Simp
Area:

0.0011	0.0043	0.0097	0.0171	0.0261

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            0.0367     0.0489     0.0624     0.0759     0.0894
            0.1030     0.1165     0.1300     0.1436     0.1576
            0.1722     0.1874     0.2031     0.2194     0.2362
            0.2536     0.2716     0.2901     0.3092     0.3288
            0.3489     0.3697     0.3910     0.4128     0.4352
            0.4582     0.4817     0.5057     0.5304     0.5555
            0.5813     0.6076     0.6344     0.6618     0.6898
            0.7183     0.7474     0.7770     0.8072     0.8379
            0.8692     0.9011     0.9335     0.9665     1.0000
Hrad:
            0.0193     0.0385     0.0578     0.0802     0.1019
            0.1227     0.1431     0.1756     0.2132     0.2506
            0.2878     0.3248     0.3617     0.3985     0.4340
            0.4674     0.4989     0.5286     0.5567     0.5832
            0.6083     0.6320     0.6545     0.6758     0.6961
            0.7153     0.7336     0.7511     0.7678     0.7837
            0.7989     0.8135     0.8274     0.8408     0.8536
            0.8660     0.8778     0.8893     0.9003     0.9109
            0.9211     0.9310     0.9406     0.9499     0.9589
            0.9676     0.9761     0.9843     0.9922     1.0000
Width:
            0.0640     0.1280     0.1920     0.2420     0.2900
            0.3380     0.3860     0.4000     0.4000     0.4000
            0.4000     0.4000     0.4000     0.4075     0.4240
            0.4405     0.4569     0.4734     0.4898     0.5063
            0.5227     0.5392     0.5557     0.5721     0.5886
            0.6050     0.6215     0.6379     0.6544     0.6709
            0.6873     0.7038     0.7202     0.7367     0.7531
            0.7696     0.7861     0.8025     0.8190     0.8354
            0.8519     0.8683     0.8848     0.9013     0.9177
            0.9342     0.9506     0.9671     0.9835     1.0000

Transect Local_NoCurb_Simp
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
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            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000

Transect Main_Street
Area:
            0.0011     0.0042     0.0095     0.0170     0.0265
            0.0382     0.0519     0.0678     0.0850     0.1029
            0.1208     0.1387     0.1566     0.1745     0.1924
            0.2103     0.2282     0.2461     0.2640     0.2819
            0.2998     0.3177     0.3356     0.3535     0.3714
            0.3893     0.4072     0.4251     0.4430     0.4614
            0.4806     0.5006     0.5215     0.5431     0.5656
            0.5889     0.6130     0.6379     0.6636     0.6901
            0.7174     0.7456     0.7746     0.8043     0.8349
            0.8663     0.8985     0.9315     0.9654     1.0000
Hrad:
            0.0142     0.0284     0.0425     0.0567     0.0709
            0.0851     0.0992     0.1151     0.1357     0.1625
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            0.1906     0.2186     0.2465     0.2743     0.3021
            0.3298     0.3575     0.3851     0.4126     0.4400
            0.4674     0.4948     0.5220     0.5492     0.5764
            0.6034     0.6304     0.6574     0.6844     0.7109
            0.7357     0.7589     0.7807     0.8010     0.8200
            0.8378     0.8545     0.8701     0.8848     0.8985
            0.9115     0.9236     0.9351     0.9459     0.9561
            0.9658     0.9750     0.9837     0.9921     1.0000
Width:
            0.0605     0.1210     0.1814     0.2419     0.3024
            0.3629     0.4233     0.4761     0.5061     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5137     0.5368
            0.5600     0.5831     0.6063     0.6295     0.6526
            0.6758     0.6989     0.7221     0.7453     0.7684
            0.7916     0.8147     0.8379     0.8610     0.8842
            0.9074     0.9305     0.9537     0.9768     1.0000

Transect Ontario_Street
Area:
            0.0007     0.0028     0.0063     0.0113     0.0176
            0.0254     0.0345     0.0451     0.0570     0.0704
            0.0852     0.1014     0.1190     0.1380     0.1584
            0.1796     0.2007     0.2218     0.2429     0.2641
            0.2852     0.3063     0.3274     0.3486     0.3697
            0.3910     0.4126     0.4345     0.4568     0.4794
            0.5023     0.5256     0.5492     0.5731     0.5973
            0.6219     0.6467     0.6720     0.6975     0.7234
            0.7496     0.7761     0.8029     0.8301     0.8576
            0.8854     0.9136     0.9421     0.9709     1.0000
Hrad:
            0.0139     0.0278     0.0417     0.0556     0.0695
            0.0834     0.0973     0.1111     0.1250     0.1389
            0.1528     0.1667     0.1806     0.1945     0.2084
            0.2360     0.2635     0.2910     0.3184     0.3458
            0.3732     0.4005     0.4277     0.4549     0.4821
            0.5093     0.5359     0.5619     0.5873     0.6120
            0.6362     0.6598     0.6828     0.7053     0.7272
            0.7486     0.7695     0.7899     0.8098     0.8292
```

```
            0.8482     0.8667     0.8848     0.9024     0.9197
            0.9365     0.9529     0.9690     0.9847     1.0000
Width:
            0.0481     0.0961     0.1442     0.1923     0.2404
            0.2884     0.3365     0.3846     0.4326     0.4807
            0.5288     0.5768     0.6249     0.6730     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7322     0.7434     0.7545     0.7657     0.7768
            0.7880     0.7992     0.8103     0.8215     0.8326
            0.8438     0.8549     0.8661     0.8773     0.8884
            0.8996     0.9107     0.9219     0.9331     0.9442
            0.9554     0.9665     0.9777     0.9888     1.0000

Transect Transect1
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
```

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            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000


***********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
***********************************************************

****************
Analysis Options
****************
Flow Units ............... CMS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 03/28/2023 00:00:00
Ending Date .............. 03/29/2023 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:10:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 5.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 8
Head Tolerance ........... 0.001500 m
```

Runoff Quantity Continuity	Volume hectare-m	Depth mm
Total Precipitation	84.447	94.745
Evaporation Loss	0.000	0.000
Infiltration Loss	45.704	51.277
Surface Runoff	38.592	43.299
Final Storage	0.390	0.438
Continuity Error (%)	-0.283	

Flow Routing Continuity	Volume hectare-m	Volume 10^6 ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	38.579	385.794
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	36.853	368.533
Flooding Loss	0.631	6.309
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.156	1.557
Final Stored Volume	1.298	12.978
Continuity Error (%)	-0.121	

Highest Continuity Errors

Node MJ52 (24.67%)
Node MJ105 (19.29%)
Node MJ118 (16.77%)
Node CBMH4_ON (13.27%)
Node MJ140 (11.39%)

```
  Time-Step Critical Elements
  ***************************
  Link C_dummy (92.02%)
  Link C668 (2.06%)
  Link C702 (1.95%)


  *******************************
  Highest Flow Instability Indexes
  *******************************
  Link OL5 (34)
  Link C211 (34)
  Link C126 (19)
  Link C100 (17)
  Link C124 (16)


  ************************
  Routing Time Step Summary
  ************************
  Minimum Time Step           :     0.50 sec
  Average Time Step           :     1.61 sec
  Maximum Time Step           :     5.00 sec
  Percent in Steady State     :     0.00
  Average Iterations per Step :     3.48
  Percent Not Converging      :    23.80
  Time Step Frequencies       :
      5.000 -  3.155 sec      :     7.31 %
      3.155 -  1.991 sec      :     4.51 %
      1.991 -  1.256 sec      :    53.20 %
      1.256 -  0.792 sec      :    16.91 %
      0.792 -  0.500 sec      :    18.06 %


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------------------
-------------
                           Total      Total      Total      Total     Imperv       Perv      Total       Total
Peak  Runoff
```

Subcatchment	Precip mm	Runon mm	Evap mm	Infil mm	Runoff mm	Runoff mm	Runoff mm	Runoff 10^6 ltr	Runoff CMS	Coeff
Rural_1	94.75	0.00	0.00	42.63	37.35	14.42	51.77	3.59	2.19	0.546
Rural_10	94.75	0.00	0.00	43.69	37.38	13.30	50.68	16.90	9.84	0.535
Rural_11	94.75	0.00	0.00	40.98	37.29	16.30	53.60	0.25	0.18	0.566
Rural_12	94.75	0.00	0.00	43.69	37.38	13.30	50.68	11.26	6.56	0.535
Rural_13	94.75	0.00	0.00	43.69	37.38	13.30	50.68	11.47	6.68	0.535
Rural_14	94.75	0.00	0.00	43.69	37.38	13.30	50.68	8.62	5.02	0.535
Rural_15	94.75	0.00	0.00	43.69	37.38	13.30	50.68	9.78	5.70	0.535
Rural_16	94.75	0.00	0.00	43.69	37.38	13.30	50.68	13.35	7.78	0.535
Rural_16-2_1	94.75	0.00	0.00	42.63	37.35	14.42	51.77	3.20	1.95	0.546
Rural_16-2_2	94.75	0.00	0.00	42.63	37.35	14.42	51.77	3.83	2.35	0.546
Rural_17	94.75	0.00	0.00	40.98	37.29	16.30	53.60	1.48	1.07	0.566
Rural_17_1	94.75	0.00	0.00	40.98	37.29	16.30	53.60	1.53	1.10	0.566
Rural_17_2	94.75	0.00	0.00	43.69	37.38	13.30	50.68	7.69	4.48	0.535
Rural_17_4	94.75	0.00	0.00	69.85	6.53	18.41	24.94	3.36	1.20	0.263
Rural_18	94.75	0.00	0.00	73.34	0.00	21.63	21.63	2.22	0.84	0.228
Rural_19	94.75	0.00	0.00	75.52	0.00	19.38	19.38	11.03	3.45	0.205
Rural_2	94.75	0.00	0.00	42.63	37.35	14.42	51.77	10.01	6.12	0.546
Rural_20	94.75	0.00	0.00	73.34	0.00	21.63	21.63	5.25	1.97	0.228
Rural_21	94.75	0.00	0.00	75.52	0.00	19.38	19.38	18.82	5.90	0.205

Rural_22	94.75	0.00	0.00	69.85	6.53	18.41	24.94	10.50
3.75	0.263							
Rural_23	94.75	0.00	0.00	62.62	14.92	17.12	32.04	16.59
7.58	0.338							
Rural_24	94.75	0.00	0.00	41.68	36.36	16.55	52.91	4.06
2.92	0.558							
Rural_25	94.75	0.00	0.00	65.82	11.19	17.70	28.89	11.51
4.82	0.305							
Rural_26	94.75	0.00	0.00	75.52	0.00	19.38	19.38	6.25
1.96	0.205							
Rural_27	94.75	0.00	0.00	42.63	37.35	14.42	51.77	4.67
2.86	0.546							
Rural_29	94.75	0.00	0.00	43.69	37.38	13.30	50.68	8.63
5.03	0.535							
Rural_3	94.75	0.00	0.00	42.63	37.35	14.42	51.77	3.77
2.30	0.546							
Rural_4	94.75	0.00	0.00	43.69	37.38	13.30	50.68	13.74
8.00	0.535							
Rural_5	94.75	0.00	0.00	42.63	37.35	14.42	51.77	5.82
3.56	0.546							
Rural_6	94.75	0.00	0.00	42.63	37.35	14.42	51.77	7.15
4.37	0.546							
Rural_7	94.75	0.00	0.00	43.69	37.38	13.30	50.68	8.76
5.10	0.535							
Rural_8	94.75	0.00	0.00	43.69	37.38	13.30	50.68	6.47
3.77	0.535							
Rural_9	94.75	0.00	0.00	43.69	37.38	13.30	50.68	11.46
6.67	0.535							
UC1	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.80
0.46	0.634							
UC10	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.20
0.14	0.792							
UC100	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08	0.792							
UC11	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.94
0.66	0.792							
UC111	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03	0.792							
UC112	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.53
0.37	0.792							
UC113	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.44
0.31	0.792							
UC114	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.13
0.09	0.792							

UC115	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.15
0.09	0.634							
UC116	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.43
0.30	0.792							
UC117	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.20	0.792							
UC118	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11	0.792							
UC119	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.25
0.17	0.792							
UC12	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.68
0.48	0.792							
UC120	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.07
0.75	0.792							
UC121	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.18
0.11	0.657							
UC122	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.23
0.16	0.792							
UC123	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08	0.792							
UC124	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.13	0.792							
UC125	94.75	0.00	0.00	34.63	23.35	36.56	59.91	0.18
0.07	0.632							
UC126	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06
0.04	0.792							
UC127	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.30
0.21	0.792							
UC128	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.01	0.792							
UC129	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.03
0.02	0.792							
UC13	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.84
0.59	0.792							
UC130	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.10
0.06	0.657							
UC131	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.05
0.04	0.792							
UC132	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.09
0.06	0.792							
UC133	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.15
0.09	0.634							
UC134	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.05
0.04	0.792							

UC135	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.21
0.12 0.634								
UC136	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.01 0.792								
UC137	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.10
0.06 0.657								
UC138	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.12
0.07 0.657								
UC139	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.03
0.02 0.657								
UC14	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.34
0.24 0.792								
UC140	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.08
0.05 0.657								
UC141	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.17
0.10 0.657								
UC142	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.08
0.05 0.657								
UC143	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.37
0.22 0.657								
UC144	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.21
0.13 0.657								
UC145	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.24
0.14 0.657								
UC146	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.28
0.17 0.657								
UC147	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.10
0.06 0.657								
UC148	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.10
0.06 0.657								
UC149	94.75	0.00	0.00	32.44	23.31	38.96	62.26	0.18
0.11 0.657								
UC15	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11 0.792								
UC150	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.38
0.22 0.634								
UC151	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.12 0.792								
UC152	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08 0.792								
UC153	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.36
0.25 0.792								
UC154	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.49
0.34 0.792								

UC155	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.14
0.10	0.792							
UC156	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.41
0.29	0.792							
UC157	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.34
0.24	0.792							
UC158	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.39
0.19	0.566							
UC159	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.09
0.06	0.792							
UC16	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.37
0.26	0.792							
UC160	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.45
1.01	0.792							
UC161	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.52
0.26	0.566							
UC162	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.28
0.19	0.792							
UC163	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06
0.04	0.792							
UC164	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.26
0.18	0.792							
UC165	94.75	0.00	0.00	28.00	32.64	33.91	66.55	1.98
1.27	0.702							
UC166	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.28
0.14	0.566							
UC167	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.46
0.32	0.792							
UC168	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08	0.792							
UC169	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.30
0.91	0.792							
UC17	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.61
0.43	0.792							
UC170	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.82
0.40	0.566							
UC171	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.90
0.63	0.792							
UC172	94.75	0.00	0.00	36.92	13.98	43.97	57.95	1.17
0.65	0.612							
UC173	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.63
1.14	0.792							
UC174	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.16
0.81	0.792							

UC175	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.08
0.06	0.792							
UC176	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17
0.12	0.792							
UC177	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.61
0.43	0.792							
UC178	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.59
0.41	0.792							
UC179	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.32
0.22	0.792							
UC18	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.51
0.36	0.792							
UC180	94.75	0.00	0.00	19.21	51.32	23.70	75.02	2.40
1.68	0.792							
UC181	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.57
0.40	0.792							
UC182	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.83
0.58	0.792							
UC183	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.75
1.23	0.792							
UC184	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.08
0.06	0.792							
UC185	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.08
0.06	0.792							
UC186	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03	0.792							
UC187	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10
0.07	0.792							
UC188	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.94
0.66	0.792							
UC189	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.33
0.93	0.792							
UC19	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.56
0.39	0.792							
UC190	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.20	0.792							
UC191	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.07
0.05	0.792							
UC192	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.78
1.25	0.792							
UC193	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.47
0.33	0.792							
UC194	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.29
0.90	0.792							

UC195	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.85
0.59 0.792								
UC196	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.45
0.32 0.792								
UC197	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.58
0.40 0.792								
UC198	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.58
0.40 0.792								
UC199	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17
0.12 0.792								
UC2	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.51
0.36 0.792								
UC20	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.68
0.48 0.792								
UC200	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.30
0.21 0.792								
UC201	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.79
0.55 0.792								
UC202	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.65
0.46 0.792								
UC203	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.50
0.35 0.792								
UC204	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.59
0.41 0.792								
UC205	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.21 0.792								
UC206	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.69
1.18 0.792								
UC207	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.72
0.50 0.792								
UC208	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.43
0.30 0.792								
UC209	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.28
0.20 0.792								
UC21	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.31
0.22 0.792								
UC210	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.16
0.81 0.792								
UC211	94.75	0.00	0.00	19.21	51.32	23.70	75.02	2.09
1.46 0.792								
UC212	94.75	0.00	0.00	19.21	51.32	23.70	75.02	2.11
1.47 0.792								
UC213	94.75	0.00	0.00	19.21	51.32	23.70	75.02	3.35
2.34 0.792								

UC214	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.46
0.32	0.792							
UC215	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.95
0.67	0.792							
UC216	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.49
1.04	0.792							
UC217	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.47
1.03	0.792							
UC218	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.90
0.63	0.792							
UC219	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10
0.07	0.792							
UC22	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.20	0.792							
UC220	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.01	0.792							
UC221	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10
0.07	0.792							
UC222	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.24
0.16	0.792							
UC223	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.20
0.14	0.792							
UC224	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.28
0.19	0.792							
UC225	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.55
0.38	0.792							
UC226	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.88
0.44	0.566							
UC227	94.75	0.00	0.00	41.44	4.66	48.94	53.60	1.84
0.91	0.566							
UC228	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.91
0.45	0.566							
UC229	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.01	0.792							
UC23	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.25
0.17	0.792							
UC24	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.26
0.18	0.792							
UC25	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.23
0.16	0.792							
UC26	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.13
0.09	0.792							
UC27	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08	0.792							

UC28	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11	0.792							
UC29	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.19
0.13	0.792							
UC3	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.09	0.792							
UC30	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.03
0.02	0.634							
UC300	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.14
0.80	0.792							
UC301	94.75	0.00	0.00	19.21	51.32	23.70	75.02	3.27
2.29	0.792							
UC302	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.36
0.25	0.792							
UC303	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.42
0.29	0.792							
UC304	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.60
1.12	0.792							
UC305	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.61
1.12	0.792							
UC306	94.75	0.00	0.00	41.44	4.66	48.94	53.60	0.37
0.18	0.566							
UC307	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.37
0.26	0.792							
UC308	94.75	0.00	0.00	20.19	51.43	22.56	73.98	2.03
1.11	0.781							
UC309	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.35
0.24	0.792							
UC31	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.20
0.12	0.634							
UC310	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.54
0.37	0.792							
UC311	94.75	0.00	0.00	19.21	51.32	23.70	75.02	3.37
2.35	0.792							
UC312	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.25
0.87	0.792							
UC313	94.75	0.00	0.00	28.00	32.64	33.91	66.55	4.73
3.04	0.702							
UC314	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.12	0.792							
UC315	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.71
0.49	0.792							
UC316	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.48
0.34	0.792							

UC317	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.44
0.31 0.792								
UC318	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.38
0.22 0.634								
UC319	94.75	0.00	0.00	19.21	51.32	23.70	75.02	1.76
1.23 0.792								
UC32	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.07
0.04 0.634								
UC33	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.48
0.28 0.634								
UC34	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.37
0.21 0.634								
UC35	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03 0.792								
UC36	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03 0.792								
UC37	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.06
0.03 0.634								
UC38	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.25
0.14 0.634								
UC39	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.07 0.792								
UC4	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.30
0.21 0.792								
UC40	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.07
0.05 0.792								
UC41	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.02 0.792								
UC42	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.07
0.05 0.792								
UC43	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06
0.04 0.792								
UC44	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.05
0.03 0.792								
UC45	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.13
0.09 0.792								
UC46	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10
0.07 0.792								
UC47	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08 0.792								
UC48	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.14
0.10 0.792								
UC49	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.31
0.22 0.792								

UC5	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.38
0.27 0.792								
UC50	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.21
0.15 0.792								
UC51	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.48
0.33 0.792								
UC52	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.43
0.30 0.792								
UC53	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.60
0.42 0.792								
UC54	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.58
0.40 0.792								
UC55	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.52
0.37 0.792								
UC56	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.30
0.21 0.792								
UC57	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.26
0.18 0.792								
UC58	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.22
0.15 0.792								
UC59	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17
0.12 0.792								
UC6	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11 0.792								
UC60	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08 0.792								
UC61	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.22
0.13 0.634								
UC62	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.51
0.36 0.792								
UC63	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06
0.04 0.792								
UC64	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.02 0.792								
UC65	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08 0.792								
UC66	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.05
0.04 0.792								
UC67	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.00
0.00 0.792								
UC68	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.12 0.792								
UC69	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.03
0.02 0.792								

UC7	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.22
0.16 0.792								
UC70	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03 0.792								
UC71	94.75	0.00	0.00	19.32	51.35	23.56	74.91	0.63
0.42 0.791								
UC72	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03 0.792								
UC73	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.27
0.19 0.792								
UC74	94.75	0.00	0.00	41.91	4.66	48.41	53.07	8.46
3.59 0.560								
UC75	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16
0.11 0.792								
UC76	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.24
0.17 0.792								
UC77	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.20
0.14 0.792								
UC78	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.29
0.21 0.792								
UC79	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.04
0.03 0.792								
UC8	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.33
0.23 0.792								
UC80	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.02
0.02 0.792								
UC81	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.18
0.13 0.792								
UC82	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.34
0.24 0.792								
UC83	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.14
0.10 0.792								
UC84	94.75	0.00	0.00	34.68	18.64	41.47	60.11	0.68
0.39 0.634								
UC85	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.31
0.22 0.792								
UC86	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.25
0.17 0.792								
UC87	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11
0.08 0.792								
UC88	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.12
0.08 0.792								
UC89	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.27
0.19 0.792								

UC9	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.36	0.25	0.792
UC90	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.11	0.07	0.792
UC91	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.03	0.02	0.792
UC92	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.06	0.04	0.792
UC93	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.16	0.11	0.792
UC94	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.13	0.09	0.792
UC95	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.07	0.05	0.792
UC96	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17	0.12	0.792
UC97	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.10	0.07	0.792
UC98	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.17	0.12	0.792
UC99	94.75	0.00	0.00	19.21	51.32	23.70	75.02	0.25	0.18	0.792

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Node Depth Summary
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Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
CB15	JUNCTION	0.09	1.40	183.10	0 09:04	1.40
CB16	JUNCTION	0.03	1.55	183.50	0 09:04	1.13
CB17	JUNCTION	0.08	2.86	183.13	0 09:04	1.69
CB18	JUNCTION	0.01	1.68	183.08	0 09:04	0.53
CB19	JUNCTION	0.05	1.50	183.10	0 09:02	0.88
CB20	JUNCTION	0.08	1.76	183.10	0 09:02	1.06
CB21	JUNCTION	0.03	1.56	182.07	0 09:04	0.95
CB22	JUNCTION	0.00	0.00	181.20	0 00:00	0.00
CB23	JUNCTION	0.02	0.14	181.59	0 09:05	0.09

CB26	JUNCTION	0.05	0.63	179.97	0	09:09	0.63
CB27	JUNCTION	0.00	0.00	182.57	0	00:00	0.00
CB29	JUNCTION	0.00	0.00	185.26	0	00:00	0.00
CB30	JUNCTION	0.00	0.04	185.19	0	09:08	0.00
CB30_1	JUNCTION	0.10	1.57	185.50	0	09:08	0.82
CB31	JUNCTION	0.16	1.13	184.62	0	09:07	1.13
CB32	JUNCTION	0.19	1.22	184.64	0	09:07	1.22
CB33	JUNCTION	0.26	1.39	184.73	0	09:07	1.39
CB34	JUNCTION	0.00	0.00	184.40	0	00:00	0.00
CB35	JUNCTION	0.00	0.12	184.32	0	09:14	0.05
CB41	JUNCTION	0.09	0.85	182.62	0	09:04	0.85
CB42	JUNCTION	0.20	1.50	182.65	0	09:05	1.50
CB-58	JUNCTION	0.23	2.10	182.53	0	09:03	1.55
CBMH_1	JUNCTION	0.32	1.47	183.00	0	08:48	1.47
CBMH_40	JUNCTION	0.04	2.25	185.00	0	09:05	0.43
CBMH_41	JUNCTION	0.10	1.98	184.50	0	09:04	0.65
CBMH_42	JUNCTION	0.02	1.68	184.50	0	09:06	0.37
CBMH_44	JUNCTION	0.13	1.87	184.30	0	09:04	0.74
CBMH_46	JUNCTION	0.31	1.47	183.47	0	09:04	1.18
CBMH_62	JUNCTION	0.05	0.27	182.90	0	09:39	0.27
CBMH1	JUNCTION	0.03	1.45	184.00	0	09:04	0.61
CBMH1_ON	JUNCTION	0.00	0.00	184.86	0	00:00	0.00
CBMH10_Main	JUNCTION	0.03	0.13	179.54	0	09:10	0.13
CBMH2	JUNCTION	0.02	0.05	180.78	0	09:05	0.05
CBMH2_ON	JUNCTION	0.00	0.00	184.54	0	00:00	0.00
CBMH3_ON	JUNCTION	0.00	0.08	184.34	0	09:08	0.08
CBMH4_ON	JUNCTION	0.14	0.34	184.33	0	09:09	0.34
CBMH5	JUNCTION	0.05	0.19	179.99	0	09:09	0.19
CBMH5_ON	JUNCTION	0.08	0.28	184.33	0	09:08	0.28
CBMH6_ON	JUNCTION	0.07	0.26	184.15	0	09:10	0.26
CBMH7	JUNCTION	0.03	1.87	184.25	0	09:04	1.17
CBMH7_ON	JUNCTION	0.05	0.20	183.91	0	09:11	0.20
CBMH8_ON	JUNCTION	0.07	0.29	183.56	0	09:10	0.29
CBMH9_ON	JUNCTION	0.02	0.09	182.83	0	09:10	0.09
DCB72	JUNCTION	0.00	0.00	180.43	0	00:00	0.00
DICBMH42	JUNCTION	0.79	1.08	177.73	0	09:54	1.07
J1	JUNCTION	0.19	0.78	183.78	0	09:07	0.76
J101	JUNCTION	0.35	1.30	182.07	0	08:53	1.30
J102	JUNCTION	0.46	1.74	182.04	0	08:58	1.74
J105	JUNCTION	0.00	0.00	183.98	0	00:00	0.00
J106	JUNCTION	0.00	0.00	183.62	0	00:00	0.00

J110	JUNCTION	0.27	1.39	182.22	0	08:53	1.32
J113	JUNCTION	0.24	1.25	182.17	0	08:53	1.25
J115	JUNCTION	0.00	0.15	183.22	0	09:19	0.13
J116	JUNCTION	0.00	0.00	176.45	0	00:00	0.00
J12	JUNCTION	0.02	0.09	183.41	0	09:07	0.08
J125	JUNCTION	1.00	2.01	180.40	0	09:07	1.81
J127	JUNCTION	0.07	2.36	183.07	0	09:07	0.47
J128	JUNCTION	0.12	2.45	183.37	0	09:04	0.96
J15	JUNCTION	0.03	0.11	180.82	0	09:08	0.11
J2	JUNCTION	0.03	0.15	183.02	0	09:12	0.15
J20	JUNCTION	0.03	0.11	179.62	0	09:09	0.11
J24	JUNCTION	0.12	0.39	178.15	0	09:09	0.39
J3	JUNCTION	0.05	0.24	181.82	0	09:19	0.24
J30	JUNCTION	0.00	0.00	186.43	0	00:00	0.00
J31	JUNCTION	0.00	0.00	185.91	0	00:00	0.00
J34	JUNCTION	0.00	1.36	183.10	0	09:18	0.14
J35	JUNCTION	0.00	0.01	182.00	0	09:18	0.01
J36	JUNCTION	0.00	0.00	179.96	0	00:00	0.00
J38	JUNCTION	0.00	0.00	180.00	0	00:00	0.00
J4	JUNCTION	0.00	0.00	185.20	0	00:00	0.00
J42	JUNCTION	0.00	0.00	179.01	0	00:00	0.00
J43	JUNCTION	0.00	0.00	178.80	0	00:00	0.00
J47	JUNCTION	0.01	0.28	180.27	0	09:06	0.22
J48	JUNCTION	0.00	0.00	180.60	0	00:00	0.00
J49	JUNCTION	0.03	1.26	182.18	0	09:07	0.62
J5	JUNCTION	0.02	0.11	184.96	0	09:07	0.10
J50	JUNCTION	0.00	0.00	178.47	0	00:00	0.00
J52	JUNCTION	0.16	0.44	179.12	0	09:05	0.44
J55	JUNCTION	0.15	0.41	178.91	0	09:06	0.41
J6	JUNCTION	0.02	0.10	181.33	0	09:21	0.10
J62	JUNCTION	0.14	0.40	178.77	0	09:06	0.40
J66	JUNCTION	0.00	0.00	176.80	0	00:00	0.00
J67	JUNCTION	0.00	0.00	176.71	0	00:00	0.00
J7	JUNCTION	0.04	0.33	182.72	0	09:06	0.31
J70	JUNCTION	0.07	0.22	176.14	0	09:09	0.22
J78	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J8	JUNCTION	0.02	0.16	184.55	0	09:13	0.15
J83	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J91	JUNCTION	0.96	1.61	179.98	0	09:07	1.50
J93	JUNCTION	0.04	0.74	182.90	0	09:08	0.59
J95	JUNCTION	0.03	0.64	183.02	0	09:09	0.38

J98	JUNCTION	0.16	0.86	182.04	0	08:59	0.86
MH_1	JUNCTION	0.10	0.27	181.51	0	08:49	0.27
MH_11	JUNCTION	0.08	3.33	186.45	0	09:04	1.40
MH_14	JUNCTION	0.17	2.84	186.59	0	09:01	2.84
MH_15	JUNCTION	0.12	3.11	185.85	0	09:04	1.60
MH_16	JUNCTION	0.15	3.03	185.62	0	09:03	1.63
MH_17	JUNCTION	0.28	2.72	184.86	0	09:03	1.55
MH_2	JUNCTION	0.12	0.31	180.91	0	08:50	0.31
MH_27	JUNCTION	0.17	2.54	185.62	0	09:02	2.54
MH_29	JUNCTION	0.04	1.74	185.65	0	09:03	1.07
MH_30	JUNCTION	0.09	2.19	185.27	0	09:03	1.90
MH_34	JUNCTION	0.18	2.94	186.07	0	09:02	2.94
MH_35	JUNCTION	0.19	2.96	185.69	0	09:02	2.64
MH_36	JUNCTION	0.20	2.91	185.55	0	09:02	2.66
MH_37	JUNCTION	0.32	2.83	185.08	0	09:04	2.73
MH_38	JUNCTION	0.39	2.54	184.57	0	09:04	2.39
MH_39	JUNCTION	0.56	2.12	183.79	0	09:04	1.84
MH_43	JUNCTION	0.09	1.74	184.30	0	09:06	0.62
MH_45	JUNCTION	0.24	1.89	184.03	0	09:04	1.03
MH_47	JUNCTION	0.63	1.98	183.54	0	09:04	1.62
MH_56	JUNCTION	0.11	0.83	184.00	0	08:59	0.66
MH_57	JUNCTION	0.08	0.30	183.14	0	09:18	0.30
MH_58	JUNCTION	0.09	0.34	183.03	0	09:38	0.34
MH_59	JUNCTION	0.00	0.00	183.44	0	00:00	0.00
MH_61	JUNCTION	0.00	0.00	183.17	0	00:00	0.00
MH_63	JUNCTION	0.14	0.44	182.90	0	09:39	0.44
MH_64	JUNCTION	0.22	0.66	182.87	0	09:47	0.66
MH_65	JUNCTION	0.37	1.00	182.87	0	10:28	0.99
MH_66	JUNCTION	0.40	1.05	182.87	0	10:30	1.03
MH_67	JUNCTION	0.76	1.53	182.86	0	10:27	1.51
MH_68	JUNCTION	0.90	1.73	182.85	0	10:30	1.72
MH_69	JUNCTION	0.18	0.35	180.61	0	10:30	0.35
MH_70	JUNCTION	0.18	0.34	180.01	0	10:30	0.34
MH1	JUNCTION	0.12	2.89	184.00	0	09:03	2.84
MH1_Main	JUNCTION	0.13	1.77	185.62	0	09:08	0.90
MH10	JUNCTION	0.36	3.57	183.07	0	09:04	2.43
MH10__S	JUNCTION	0.01	0.23	183.38	0	09:08	0.20
MH10_Main	JUNCTION	0.16	2.27	179.05	0	09:05	0.55
MH11	JUNCTION	0.26	2.78	182.08	0	09:04	2.16
MH11__S	JUNCTION	0.14	0.91	183.68	0	09:02	0.58
MH11_Main	JUNCTION	0.08	0.22	176.56	0	09:12	0.22

MH12	JUNCTION	0.04	1.32	182.52	0	09:04	0.68
MH13	JUNCTION	0.33	1.71	180.51	0	09:05	1.69
MH13_Main	JUNCTION	0.04	0.39	181.65	0	09:11	0.38
MH13_Main_	JUNCTION	0.09	1.61	182.36	0	09:07	0.84
MH14	JUNCTION	0.19	1.61	179.96	0	09:05	1.59
MH14_Main	JUNCTION	0.14	1.84	182.39	0	09:07	1.03
MH15	JUNCTION	0.18	1.34	179.54	0	09:05	1.32
MH15_Main	JUNCTION	0.14	1.64	182.13	0	09:07	1.04
MH16	JUNCTION	0.15	0.91	178.91	0	09:05	0.90
MH2	JUNCTION	0.18	2.95	183.95	0	09:03	2.95
MH2_Main	JUNCTION	0.25	1.52	184.87	0	10:06	1.40
MH2_S	JUNCTION	0.04	0.49	184.44	0	09:06	0.31
MH21	JUNCTION	0.23	1.98	183.10	0	09:03	1.98
MH21_S	JUNCTION	0.05	0.41	183.21	0	09:13	0.39
MH22	JUNCTION	0.33	2.21	182.90	0	09:03	2.12
MH23	JUNCTION	0.24	2.04	182.80	0	09:02	1.96
MH24	JUNCTION	0.28	2.18	182.77	0	09:08	1.99
MH25	JUNCTION	0.16	2.19	182.29	0	09:08	0.86
MH25-1	JUNCTION	0.19	2.08	182.34	0	09:08	1.01
MH26	JUNCTION	0.08	0.29	180.05	0	09:09	0.28
MH3	JUNCTION	0.18	3.19	184.11	0	09:03	2.94
MH3_Main	JUNCTION	0.21	1.52	184.34	0	09:13	1.43
MH3_S	JUNCTION	0.02	0.17	184.28	0	09:07	0.15
MH30	JUNCTION	0.10	2.79	182.22	0	09:11	1.57
MH31	JUNCTION	0.10	1.85	181.17	0	09:10	1.14
MH32	JUNCTION	0.11	1.69	180.89	0	09:05	1.23
MH33	JUNCTION	0.15	1.60	180.72	0	09:05	1.25
MH34	JUNCTION	0.05	0.38	179.44	0	09:11	0.38
MH34_S	JUNCTION	0.02	0.11	181.59	0	09:08	0.11
MH35	JUNCTION	0.06	0.48	179.42	0	09:11	0.47
MH36	JUNCTION	0.06	0.62	179.45	0	09:11	0.56
MH36_S	JUNCTION	0.02	0.11	182.08	0	09:10	0.11
MH37	JUNCTION	0.00	0.00	179.80	0	00:00	0.00
MH37_S	JUNCTION	0.00	0.00	182.34	0	00:00	0.00
MH38	JUNCTION	0.00	0.25	179.80	0	09:11	0.20
MH39	JUNCTION	0.01	0.39	179.81	0	09:11	0.34
MH4	JUNCTION	0.17	3.46	184.16	0	09:04	2.85
MH4_Main	JUNCTION	0.26	2.60	184.26	0	09:05	1.72
MH40	JUNCTION	0.12	1.27	180.10	0	09:05	1.00
MH41	JUNCTION	0.09	0.90	179.58	0	09:06	0.71
MH41_S	JUNCTION	0.11	0.25	182.10	0	09:09	0.24

MH42	JUNCTION	0.12	0.26	177.70	0	09:52	0.26
MH43	JUNCTION	0.12	0.25	177.54	0	09:53	0.25
MH5	JUNCTION	0.09	2.55	185.00	0	09:05	0.82
MH5_Main	JUNCTION	0.41	2.08	182.83	0	09:05	2.08
MH6	JUNCTION	0.08	2.14	184.46	0	09:04	0.85
MH6_Main	JUNCTION	0.33	2.28	182.52	0	09:41	1.17
MH7	JUNCTION	0.09	1.90	184.00	0	09:07	0.94
MH7_Main	JUNCTION	0.08	0.24	180.49	0	09:11	0.24
MH8	JUNCTION	0.17	3.14	183.65	0	09:04	2.80
MH8_Main	JUNCTION	0.45	1.91	179.47	0	09:06	1.91
MH8_S	JUNCTION	0.02	0.10	184.06	0	09:08	0.10
MH9	JUNCTION	0.19	3.20	183.47	0	09:04	2.81
MH9__S	JUNCTION	0.04	0.58	183.81	0	09:09	0.58
MH9_Main	JUNCTION	0.15	1.93	179.54	0	09:07	0.58
MJ_	JUNCTION	0.00	0.00	182.63	0	00:00	0.00
MJ1	JUNCTION	0.06	0.22	177.69	0	09:16	0.22
MJ10	JUNCTION	0.01	0.05	183.55	0	09:07	0.04
MJ100	JUNCTION	0.03	0.16	182.42	0	09:06	0.15
MJ101	JUNCTION	0.02	0.11	183.80	0	09:06	0.10
MJ102	JUNCTION	0.48	0.68	183.54	1	00:00	0.68
MJ103	JUNCTION	0.04	0.14	183.15	0	09:22	0.14
MJ104	JUNCTION	0.01	0.08	184.28	0	09:10	0.08
MJ105	JUNCTION	0.40	2.00	186.47	0	09:04	0.61
MJ106	JUNCTION	0.00	0.00	183.57	0	00:00	0.00
MJ107	JUNCTION	0.02	0.09	184.26	0	09:13	0.09
MJ108	JUNCTION	0.01	0.07	185.74	0	09:06	0.06
MJ109	JUNCTION	0.00	0.00	184.90	0	00:00	0.00
MJ11	JUNCTION	0.00	0.00	178.72	0	00:00	0.00
MJ110	JUNCTION	0.11	0.21	182.24	0	09:08	0.21
MJ111	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MJ112	JUNCTION	0.03	0.17	180.80	0	09:08	0.17
MJ113	JUNCTION	0.02	0.06	184.30	0	09:19	0.06
MJ114	JUNCTION	0.01	0.03	184.56	0	09:11	0.03
MJ115	JUNCTION	0.01	0.06	185.49	0	09:05	0.05
MJ116	JUNCTION	0.04	0.22	182.19	0	09:26	0.22
MJ117	JUNCTION	0.00	0.01	185.55	0	09:08	0.01
MJ118	JUNCTION	0.20	0.39	185.10	0	09:14	0.38
MJ119	JUNCTION	0.29	0.47	180.68	0	09:10	0.47
MJ12	JUNCTION	0.03	0.15	179.16	0	09:06	0.14
MJ120	JUNCTION	0.27	0.38	184.30	0	09:19	0.38
MJ121	JUNCTION	0.00	0.00	186.66	0	00:00	0.00

MJ122	JUNCTION	0.02	0.12	184.37	0	09:07	0.11
MJ123	JUNCTION	0.00	0.00	187.14	0	00:00	0.00
MJ124	JUNCTION	0.14	0.30	180.68	0	09:10	0.30
MJ125	JUNCTION	0.02	0.10	186.21	0	09:06	0.09
MJ126	JUNCTION	0.00	0.00	185.15	0	00:00	0.00
MJ127	JUNCTION	0.01	0.07	185.94	0	09:06	0.07
MJ128	JUNCTION	0.02	0.13	182.22	0	09:07	0.13
MJ129	JUNCTION	0.08	0.41	182.19	0	09:24	0.41
MJ13	JUNCTION	0.02	0.11	178.71	0	09:06	0.10
MJ130	JUNCTION	0.03	0.15	186.22	0	09:06	0.14
MJ131	JUNCTION	0.01	0.05	184.30	0	09:05	0.04
MJ132	JUNCTION	0.09	0.46	182.19	0	09:23	0.44
MJ133	JUNCTION	0.00	0.00	186.56	0	00:00	0.00
MJ134	JUNCTION	0.24	0.75	182.14	0	09:52	0.75
MJ135	JUNCTION	0.02	0.12	183.37	0	09:10	0.12
MJ136	JUNCTION	0.01	0.05	183.41	0	09:08	0.05
MJ137	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
MJ138	JUNCTION	0.00	0.00	187.83	0	00:00	0.00
MJ139	JUNCTION	0.01	0.09	182.02	0	09:05	0.06
MJ14	JUNCTION	0.01	0.09	181.57	0	09:08	0.09
MJ140	JUNCTION	0.00	0.02	182.19	0	09:17	0.02
MJ142	JUNCTION	0.02	0.19	182.82	0	09:12	0.17
MJ143	JUNCTION	0.01	0.08	184.24	0	09:08	0.08
MJ144	JUNCTION	0.00	0.00	182.85	0	00:00	0.00
MJ145	JUNCTION	0.03	0.17	182.70	0	09:09	0.17
MJ146	JUNCTION	0.13	2.00	184.36	0	09:04	0.83
MJ147	JUNCTION	0.04	0.20	183.20	0	09:15	0.18
MJ148	JUNCTION	0.05	0.23	183.24	0	09:09	0.23
MJ149	JUNCTION	0.02	0.29	184.29	0	09:08	0.26
MJ15	JUNCTION	0.01	0.08	188.61	0	09:07	0.08
MJ150	JUNCTION	0.00	0.00	184.44	0	00:00	0.00
MJ151	JUNCTION	0.04	0.30	183.68	0	09:17	0.29
MJ152	JUNCTION	0.04	0.20	183.90	0	09:09	0.20
MJ153	JUNCTION	0.02	0.14	184.46	0	09:14	0.14
MJ154	JUNCTION	0.05	0.26	184.74	0	09:09	0.26
MJ155	JUNCTION	0.02	0.13	185.31	0	09:10	0.13
MJ156	JUNCTION	0.00	0.00	185.85	0	00:00	0.00
MJ157	JUNCTION	0.00	0.00	186.21	0	00:00	0.00
MJ158	JUNCTION	0.00	0.00	183.48	0	00:00	0.00
MJ16	JUNCTION	0.01	0.04	178.69	0	09:15	0.04
MJ17	JUNCTION	0.01	0.05	181.88	0	09:06	0.04

MJ18	JUNCTION	0.02	0.10	183.46	0	09:09	0.10
MJ19	JUNCTION	0.10	0.17	181.16	0	09:06	0.17
MJ2	JUNCTION	0.02	0.11	177.86	0	09:09	0.11
MJ20	JUNCTION	0.01	0.05	183.33	0	09:08	0.05
MJ21	JUNCTION	0.02	0.10	179.03	0	09:08	0.10
MJ22	JUNCTION	0.23	0.42	186.58	0	09:07	0.41
MJ23	JUNCTION	0.01	0.06	179.33	0	09:06	0.06
MJ24	JUNCTION	0.17	0.82	182.63	0	09:36	0.82
MJ25	JUNCTION	0.03	0.14	183.59	0	09:07	0.13
MJ26	JUNCTION	0.03	0.12	183.00	0	09:09	0.12
MJ27	JUNCTION	0.05	0.16	179.98	0	09:19	0.16
MJ28	JUNCTION	0.00	0.00	183.09	0	00:00	0.00
MJ29	JUNCTION	0.34	0.47	181.51	1	00:00	0.47
MJ3	JUNCTION	0.05	0.18	177.57	0	09:08	0.18
MJ30	JUNCTION	0.03	0.15	181.50	0	09:08	0.15
MJ31	JUNCTION	0.02	0.10	181.17	0	09:09	0.10
MJ32	JUNCTION	0.01	0.07	182.01	0	09:08	0.07
MJ33	JUNCTION	0.01	0.07	181.76	0	09:12	0.07
MJ34	JUNCTION	0.01	0.07	179.76	0	09:06	0.06
MJ35	JUNCTION	0.06	0.20	180.35	0	09:19	0.20
MJ36	JUNCTION	0.04	0.19	182.86	0	09:08	0.18
MJ37	JUNCTION	0.01	0.06	178.70	0	09:11	0.06
MJ38	JUNCTION	0.05	0.16	181.83	0	09:09	0.16
MJ39	JUNCTION	0.00	0.00	183.95	0	00:00	0.00
MJ4	JUNCTION	0.00	0.00	179.70	0	00:00	0.00
MJ40	JUNCTION	0.00	0.03	182.95	0	09:15	0.03
MJ41	JUNCTION	0.01	0.10	183.59	0	09:11	0.10
MJ42	JUNCTION	0.05	0.18	180.84	0	09:19	0.18
MJ43	JUNCTION	0.00	0.00	186.65	0	00:00	0.00
MJ44	JUNCTION	0.01	0.05	183.45	0	09:13	0.05
MJ45	JUNCTION	0.00	0.03	184.83	0	09:06	0.03
MJ46	JUNCTION	0.01	0.04	181.60	0	09:07	0.04
MJ47	JUNCTION	0.07	0.15	182.98	0	09:07	0.15
MJ48	JUNCTION	0.12	0.44	176.88	0	09:19	0.44
MJ49	JUNCTION	0.01	0.04	182.94	0	09:11	0.04
MJ5	JUNCTION	0.02	0.13	183.75	0	09:05	0.10
MJ50	JUNCTION	0.20	0.30	182.90	0	23:59	0.30
MJ51	JUNCTION	0.01	0.04	181.08	0	09:07	0.04
MJ52	JUNCTION	0.22	0.31	182.90	0	23:59	0.31
MJ53	JUNCTION	0.00	0.02	182.27	0	09:07	0.02
MJ54	JUNCTION	0.00	0.00	182.45	0	00:00	0.00

MJ55	JUNCTION	0.02	0.11	178.65	0	09:08	0.11
MJ56	JUNCTION	0.00	0.02	182.94	0	09:07	0.02
MJ57	JUNCTION	0.01	0.08	178.91	0	09:08	0.08
MJ58	JUNCTION	0.36	0.48	182.90	0	23:58	0.48
MJ59	JUNCTION	0.33	0.44	182.39	1	00:00	0.44
MJ60	JUNCTION	0.02	0.09	180.10	0	09:07	0.09
MJ61	JUNCTION	0.44	0.60	181.35	1	00:00	0.60
MJ62	JUNCTION	0.00	0.00	183.87	0	00:00	0.00
MJ63	JUNCTION	0.05	0.17	182.40	0	09:19	0.17
MJ64	JUNCTION	0.10	0.23	182.40	0	09:19	0.23
MJ65	JUNCTION	0.01	0.06	182.54	0	09:06	0.06
MJ66	JUNCTION	0.01	0.06	180.36	0	09:08	0.06
MJ67	JUNCTION	0.07	0.25	186.24	0	09:09	0.25
MJ68	JUNCTION	0.00	0.00	184.22	0	00:00	0.00
MJ69	JUNCTION	0.01	0.09	182.38	0	09:07	0.08
MJ7	JUNCTION	0.04	0.17	186.76	0	09:08	0.17
MJ70	JUNCTION	0.02	0.08	183.34	0	09:07	0.08
MJ71	JUNCTION	0.02	0.10	179.11	0	09:06	0.10
MJ72	JUNCTION	0.07	0.22	182.66	0	09:18	0.22
MJ73	JUNCTION	0.01	0.10	182.45	0	09:08	0.10
MJ74	JUNCTION	0.05	0.24	182.89	0	09:18	0.24
MJ75	JUNCTION	0.03	0.11	183.08	0	09:20	0.11
MJ76	JUNCTION	0.01	0.06	183.80	0	09:07	0.05
MJ77	JUNCTION	0.01	0.06	182.42	0	09:06	0.05
MJ78	JUNCTION	0.01	0.07	183.20	0	09:08	0.07
MJ79	JUNCTION	0.03	0.15	182.80	0	09:20	0.15
MJ8	JUNCTION	0.00	0.00	189.00	0	00:00	0.00
MJ80	JUNCTION	0.01	0.08	182.80	0	09:06	0.07
MJ81	JUNCTION	0.03	0.13	183.28	0	09:06	0.13
MJ82	JUNCTION	0.03	0.16	182.85	0	09:19	0.16
MJ83	JUNCTION	0.08	0.24	182.72	0	09:13	0.22
MJ84	JUNCTION	0.01	0.05	185.70	0	09:05	0.04
MJ85	JUNCTION	0.01	0.08	183.97	0	09:16	0.07
MJ86	JUNCTION	0.01	0.06	184.42	0	09:06	0.05
MJ87	JUNCTION	0.09	0.23	183.55	0	09:08	0.22
MJ88	JUNCTION	0.00	0.00	183.05	0	00:00	0.00
MJ89	JUNCTION	0.04	0.14	182.90	0	09:10	0.14
MJ9	JUNCTION	0.02	0.12	178.75	0	09:06	0.11
MJ90	JUNCTION	0.37	0.50	182.17	1	00:00	0.50
MJ91	JUNCTION	0.01	0.04	184.18	0	09:08	0.04
MJ92	JUNCTION	0.02	0.09	186.05	0	09:08	0.09

MJ93	JUNCTION	0.01	0.09	185.05	0	09:14	0.08
MJ94	JUNCTION	0.10	0.14	184.66	1	00:00	0.14
MJ95	JUNCTION	0.04	0.16	181.32	0	09:07	0.15
MJ96	JUNCTION	0.04	0.12	183.04	0	09:30	0.12
MJ97	JUNCTION	0.50	0.72	183.15	0	09:21	0.72
MJ98	JUNCTION	0.03	0.14	183.51	0	09:09	0.14
MJ99	JUNCTION	0.01	0.06	185.44	0	09:09	0.06
OGS-	JUNCTION	0.10	0.25	180.74	0	08:50	0.25
RICE_POND_OUTLET	JUNCTION	0.18	0.33	181.15	0	10:30	0.33
OF10-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF11-M	OUTFALL	0.00	0.00	183.10	0	00:00	0.00
OF12-	OUTFALL	0.04	0.54	179.69	0	09:09	0.54
OF13-	OUTFALL	0.10	0.25	180.56	0	08:50	0.25
OF14-	OUTFALL	0.18	0.34	179.89	0	10:30	0.34
OF15-	OUTFALL	0.00	0.00	177.00	0	00:00	0.00
OF16-	OUTFALL	0.05	0.19	177.19	0	09:09	0.19
OF17-	OUTFALL	0.14	0.68	178.48	0	09:06	0.68
OF18-M	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF19-	OUTFALL	0.03	0.13	178.28	0	09:10	0.13
OF1-M	OUTFALL	0.12	0.43	175.43	0	09:19	0.43
OF20-	OUTFALL	0.11	0.30	179.45	0	09:07	0.29
OF21-	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF22_M	OUTFALL	0.00	0.02	181.27	0	09:09	0.02
OF23-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF24-	OUTFALL	0.08	0.28	177.54	0	09:09	0.28
OF25-	OUTFALL	0.09	0.25	177.84	0	08:56	0.25
OF26-M	OUTFALL	0.03	0.17	178.69	0	09:10	0.17
OF27-1	OUTFALL	0.10	0.21	177.40	0	09:53	0.21
OF27-M	OUTFALL	0.02	0.10	178.96	0	09:21	0.10
OF28-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF29-	OUTFALL	0.00	0.00	178.63	0	00:00	0.00
OF2-M	OUTFALL	0.04	0.16	177.26	0	09:19	0.16
OF2-M-	OUTFALL	0.01	0.09	177.19	0	09:06	0.08
OF3-	OUTFALL	0.08	0.22	176.22	0	09:12	0.22
OF30-M	OUTFALL	0.02	0.08	179.91	0	09:07	0.08
OF31-M	OUTFALL	0.02	0.11	181.49	0	09:09	0.11
OF32-M	OUTFALL	0.04	0.22	185.14	0	09:07	0.21
OF33-	OUTFALL	0.12	0.39	177.42	0	09:09	0.39
OF34-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF35-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF36-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00

OF37-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF38-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF39-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF3-M	OUTFALL	0.02	0.11	177.84	0	09:06	0.10
OF40-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF41-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF42-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF43-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF44-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF45-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF46-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF47-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF48-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF49-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF4-M	OUTFALL	0.01	0.07	175.69	0	09:06	0.07
OF50	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF51	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF52	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF53	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF54	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF55	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF56	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF57	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF58	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF59	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF5-M	OUTFALL	0.01	0.04	182.90	0	09:20	0.04
OF6-	OUTFALL	0.06	0.22	175.72	0	09:09	0.22
OF60	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF61	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF62	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF7-M	OUTFALL	0.03	0.17	177.31	0	09:08	0.17
OF8-	OUTFALL	0.00	0.00	176.00	0	00:00	0.00
OF9-M	OUTFALL	0.03	0.16	179.20	0	09:07	0.15
Gill_RD_Pond	STORAGE	1.05	1.98	178.63	0	09:52	1.98
Rice_Pond	STORAGE	2.72	3.59	182.84	0	10:29	3.59

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent	
CB15	JUNCTION	0.262	0.262	0	09:05	0.374	0.374	0.030	
CB16	JUNCTION	0.000	0.052	0	09:04	0	0.000776	1.185	
CB17	JUNCTION	0.183	0.183	0	09:05	0.262	0.262	0.105	
CB18	JUNCTION	0.000	0.084	0	09:04	0	0.000483	-1.918	
CB19	JUNCTION	0.150	0.150	0	09:05	0.215	0.215	0.012	
CB20	JUNCTION	0.218	0.283	0	09:02	0.311	0.502	0.009	
CB21	JUNCTION	0.000	0.055	0	09:02	0	0.00064	-2.238	
CB22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB23	JUNCTION	0.041	0.041	0	09:05	0.0584	0.0584	0.013	
CB26	JUNCTION	0.000	0.725	0	09:09	0	0.816	-0.369	
CB27	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB30	JUNCTION	0.000	0.018	0	09:08	0	8.49e-05	2.238	
CB30_1	JUNCTION	0.000	0.093	0	09:08	0	0.00109	-2.843	
CB31	JUNCTION	0.000	0.085	0	09:07	0	0.135	-0.189	
CB32	JUNCTION	0.000	0.091	0	09:15	0	0.2	-0.024	
CB33	JUNCTION	0.000	0.090	0	10:11	0	0.0786	0.129	
CB34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB35	JUNCTION	0.000	0.012	0	09:13	0	0.000258	0.619	
CB41	JUNCTION	0.000	0.098	0	09:06	0	0.124	-0.637	
CB42	JUNCTION	0.000	0.105	0	09:29	0	0.209	0.619	
CB-58	JUNCTION	0.000	0.624	0	09:09	0	3.58	0.030	
CBMH_1	JUNCTION	3.040	3.040	0	09:05	4.73	4.73	0.021	
CBMH_40	JUNCTION	0.000	0.038	0	09:05	0	0.00213	-0.870	
CBMH_41	JUNCTION	0.000	0.086	0	09:04	0	0.00685	-0.412	
CBMH_42	JUNCTION	0.000	0.037	0	09:04	0	0.0052	-0.075	
CBMH_44	JUNCTION	0.000	0.076	0	09:04	0	0.0108	-0.487	
CBMH_46	JUNCTION	0.000	0.312	0	09:04	0	0.0411	-0.054	
CBMH_62	JUNCTION	0.000	0.009	0	09:19	0	0.00469	0.093	
CBMH1	JUNCTION	0.000	0.060	0	09:04	0	0.00337	14.285	
CBMH1_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH10_Main	JUNCTION	0.000	0.207	0	09:10	0	0.813	0.005	
CBMH2	JUNCTION	0.000	0.011	0	09:05	0	0.0971	0.019	
CBMH2_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH3_ON	JUNCTION	0.000	0.008	0	09:05	0	0.0015	1.138	

CBMH4_ON	JUNCTION	0.000	0.018	0	09:05	0	0.01	15.299	
CBMH5	JUNCTION	0.000	0.262	0	09:09	0	1.34	0.007	
CBMH5_ON	JUNCTION	0.060	0.104	0	09:06	0.0865	0.395	0.212	
CBMH6_ON	JUNCTION	0.000	0.095	0	09:09	0	0.386	0.192	
CBMH7	JUNCTION	0.000	0.118	0	09:04	0	0.00107	-6.529	
CBMH7_ON	JUNCTION	0.000	0.094	0	09:10	0	0.385	-0.219	
CBMH8_ON	JUNCTION	0.000	0.208	0	09:09	0	0.815	0.233	
CBMH9_ON	JUNCTION	0.000	0.207	0	09:10	0	0.813	0.002	
DCB72	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
DICBMH42	JUNCTION	0.000	0.135	0	09:52	0	2.25	0.037	
J1	JUNCTION	0.687	0.687	0	09:05	1.09	1.09	-0.069	
J101	JUNCTION	0.000	0.391	0	09:06	0	2.16	0.394	
J102	JUNCTION	0.000	0.367	0	09:05	0	2.88	0.850	
J105	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J110	JUNCTION	0.000	0.025	0	09:05	0	0.194	-1.818	
J113	JUNCTION	0.000	0.081	0	09:13	0	0.266	0.636	
J115	JUNCTION	0.000	0.010	0	09:06	0	0.00163	0.900	
J116	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J12	JUNCTION	0.000	0.049	0	09:07	0	0.169	0.021	
J125	JUNCTION	0.000	0.607	0	09:07	0	7.21	0.111	
J127	JUNCTION	0.193	0.323	0	09:04	0.276	1.15	0.124	
J128	JUNCTION	0.000	0.229	0	09:15	0	0.868	-0.500	
J15	JUNCTION	0.000	0.049	0	09:07	0	0.169	0.029	
J2	JUNCTION	0.000	0.146	0	09:09	0	0.524	0.072	
J20	JUNCTION	0.000	0.049	0	09:08	0	0.169	0.132	
J24	JUNCTION	0.000	0.580	0	09:09	0	4.4	0.009	
J3	JUNCTION	0.000	0.143	0	09:12	0	0.524	0.420	
J30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J31	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J34	JUNCTION	0.000	0.010	0	09:04	0	0.00113	0.801	
J35	JUNCTION	0.000	0.002	0	09:18	0	1.98e-05	0.215	ltr
J36	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J38	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J47	JUNCTION	0.000	0.013	0	09:04	0	0.000888	0.014	
J48	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J49	JUNCTION	0.000	0.034	0	09:06	0	0.00219	-0.430	
J5	JUNCTION	0.000	0.049	0	09:07	0	0.169	0.037	

J50	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J52	JUNCTION	0.000	0.316	0	09:05	0	3.31	0.027	
J55	JUNCTION	0.000	0.317	0	09:06	0	3.31	0.000	
J6	JUNCTION	0.000	0.136	0	09:20	0	0.522	0.103	
J62	JUNCTION	0.000	0.317	0	09:06	0	3.31	0.008	
J66	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J67	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J7	JUNCTION	0.000	0.451	0	09:05	0	0.567	0.182	
J70	JUNCTION	0.000	0.105	0	09:08	0	0.714	0.015	
J78	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J8	JUNCTION	0.000	1.166	0	09:11	0	1.91	0.439	
J83	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J91	JUNCTION	0.000	0.606	0	09:07	0	7.21	0.039	
J93	JUNCTION	0.000	0.055	0	09:10	0	0.188	0.051	
J95	JUNCTION	0.000	0.055	0	09:10	0	0.188	0.037	
J98	JUNCTION	0.000	0.068	0	09:10	0	0.233	-0.769	
MH_1	JUNCTION	0.000	0.168	0	09:38	0	1.91	0.025	
MH_11	JUNCTION	0.193	0.193	0	09:05	0.392	0.392	0.057	
MH_14	JUNCTION	0.448	0.448	0	09:05	0.908	0.908	0.157	
MH_15	JUNCTION	0.000	0.476	0	09:03	0	1.21	-0.107	
MH_16	JUNCTION	0.000	0.463	0	09:05	0	1.21	0.013	
MH_17	JUNCTION	0.000	0.463	0	09:05	0	1.21	0.059	
MH_2	JUNCTION	0.000	0.168	0	08:50	0	1.9	0.007	
MH_27	JUNCTION	0.910	0.910	0	09:05	1.84	1.84	0.260	
MH_29	JUNCTION	0.000	0.054	0	09:03	0	0.00194	-0.328	
MH_30	JUNCTION	0.000	0.178	0	09:03	0	0.00683	-0.791	
MH_34	JUNCTION	0.435	0.435	0	09:05	0.881	0.881	0.466	
MH_35	JUNCTION	0.000	0.347	0	09:03	0	0.825	-0.273	
MH_36	JUNCTION	0.000	0.347	0	09:03	0	0.827	0.082	
MH_37	JUNCTION	0.000	1.096	0	09:03	0	2.87	-0.337	
MH_38	JUNCTION	0.000	1.056	0	09:03	0	2.87	0.116	
MH_39	JUNCTION	0.000	1.691	0	09:05	0	5.58	-0.072	
MH_43	JUNCTION	0.000	0.049	0	09:04	0	0.00825	-0.020	
MH_45	JUNCTION	0.000	0.165	0	09:04	0	0.025	-0.125	
MH_47	JUNCTION	0.000	1.692	0	09:05	0	5.61	0.459	
MH_56	JUNCTION	0.000	0.222	0	09:08	0	0.776	5.156	
MH_57	JUNCTION	0.000	0.100	0	09:18	0	0.717	0.019	
MH_58	JUNCTION	0.000	0.098	0	09:19	0	0.717	0.078	
MH_59	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_61	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_63	JUNCTION	0.000	0.097	0	09:18	0	0.721	0.289	

MH_64	JUNCTION	0.000	0.092	0	09:17	0	0.714	-0.092
MH_65	JUNCTION	0.000	0.247	0	09:14	0	1.24	-0.031
MH_66	JUNCTION	0.000	0.247	0	09:14	0	1.24	0.102
MH_67	JUNCTION	0.000	1.914	0	09:09	0	6.8	-0.034
MH_68	JUNCTION	0.000	1.911	0	09:09	0	6.8	0.035
MH_69	JUNCTION	0.000	0.293	0	10:30	0	6.88	0.027
MH_70	JUNCTION	0.000	0.293	0	10:30	0	6.87	0.004
MH1	JUNCTION	0.000	0.036	0	09:03	0	0.000726	4.627
MH1_Main	JUNCTION	0.000	0.078	0	09:08	0	0.145	-0.007
MH10	JUNCTION	0.000	1.213	0	09:08	0	3.42	-0.000
MH10__S	JUNCTION	0.000	0.710	0	09:06	0	0.312	1.771
MH10_Main	JUNCTION	0.000	0.340	0	09:07	0	2.98	0.329
MH11	JUNCTION	0.000	1.748	0	09:07	0	4.82	0.047
MH11__S	JUNCTION	0.000	0.796	0	09:05	0	1.07	3.077
MH11_Main	JUNCTION	0.000	0.310	0	09:07	0	2.96	0.012
MH12	JUNCTION	0.000	0.283	0	09:02	0	0.501	0.061
MH13	JUNCTION	0.000	1.858	0	09:08	0	5.16	0.115
MH13_Main	JUNCTION	0.000	0.088	0	09:08	0	0.197	0.800
MH13_Main_	JUNCTION	0.000	0.084	0	09:07	0	0.197	-0.562
MH14	JUNCTION	0.000	1.313	0	09:05	0	4.75	0.015
MH14_Main	JUNCTION	0.000	0.083	0	09:11	0	0.207	-0.079
MH15	JUNCTION	0.000	1.313	0	09:05	0	4.75	0.002
MH15_Main	JUNCTION	0.000	0.083	0	09:11	0	0.213	0.183
MH16	JUNCTION	0.000	1.324	0	09:05	0	4.84	0.007
MH2	JUNCTION	0.000	0.316	0	09:05	0	1.09	0.008
MH2_Main	JUNCTION	0.000	0.382	0	10:11	0	1.81	0.020
MH2_S	JUNCTION	0.476	0.724	0	09:03	0.681	1.18	0.113
MH21	JUNCTION	0.000	0.316	0	09:08	0	1.08	9.455
MH21_S	JUNCTION	0.899	1.727	0	09:05	1.28	2.7	0.021
MH22	JUNCTION	0.000	0.154	0	09:40	0	0.616	1.574
MH23	JUNCTION	0.000	0.154	0	09:40	0	0.608	-0.021
MH24	JUNCTION	0.000	0.470	0	09:40	0	3.01	0.023
MH25	JUNCTION	0.000	0.624	0	09:09	0	3.58	0.006
MH25-1	JUNCTION	0.000	0.624	0	09:09	0	3.58	0.018
MH26	JUNCTION	0.000	0.624	0	09:09	0	3.58	0.005
MH3	JUNCTION	0.000	0.454	0	09:05	0	1.41	0.067
MH3_Main	JUNCTION	0.000	0.150	0	09:12	0	1.75	-0.049
MH3_S	JUNCTION	0.586	0.743	0	09:06	0.837	0.891	-0.035
MH30	JUNCTION	0.000	0.202	0	09:08	0	0.666	-2.836
MH31	JUNCTION	0.000	0.179	0	09:06	0	0.686	0.646
MH32	JUNCTION	0.000	0.281	0	09:09	0	0.99	-0.067

MH33	JUNCTION	0.000	0.281	0	09:09	0	0.99	-0.235	
MH34	JUNCTION	0.000	0.107	0	09:08	0	0.305	0.170	
MH34_S	JUNCTION	0.550	0.734	0	09:07	0.787	1.52	-0.277	
MH35	JUNCTION	0.000	0.106	0	09:07	0	0.305	0.080	
MH36	JUNCTION	0.000	0.107	0	09:09	0	0.305	-0.064	
MH36_S	JUNCTION	0.000	0.415	0	09:09	0	0.732	0.305	
MH37	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH37_S	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH38	JUNCTION	0.000	0.021	0	09:09	0	0.00242	0.886	
MH39	JUNCTION	0.000	0.049	0	09:08	0	0.0214	0.667	
MH4	JUNCTION	0.000	0.483	0	09:09	0	1.53	0.091	
MH4_Main	JUNCTION	0.000	0.154	0	09:38	0	1.75	-0.040	
MH40	JUNCTION	0.000	0.429	0	09:07	0	1.45	0.082	
MH41	JUNCTION	0.000	0.494	0	09:11	0	1.74	0.246	
MH41_S	JUNCTION	0.000	0.456	0	09:07	0	0.765	0.000	
MH42	JUNCTION	0.000	0.135	0	09:53	0	2.25	0.099	
MH43	JUNCTION	0.000	0.135	0	09:53	0	2.25	-0.019	
MH5	JUNCTION	0.000	0.145	0	09:27	0	0.294	6.297	
MH5_Main	JUNCTION	0.000	0.407	0	09:18	0	2.78	2.140	
MH6	JUNCTION	0.000	0.104	0	09:35	0	0.271	-0.869	
MH6_Main	JUNCTION	0.000	0.269	0	09:11	0	2.59	0.206	
MH7	JUNCTION	0.000	0.081	0	09:22	0	0.27	-0.204	
MH7_Main	JUNCTION	0.000	0.269	0	09:11	0	2.58	0.034	
MH8	JUNCTION	0.000	0.493	0	09:09	0	1.8	-0.041	
MH8_Main	JUNCTION	0.000	0.269	0	09:11	0	2.58	0.020	
MH8_S	JUNCTION	0.497	0.711	0	09:07	0.71	1.02	0.296	
MH9	JUNCTION	0.000	0.919	0	09:04	0	2.96	0.002	
MH9__S	JUNCTION	0.000	0.690	0	09:08	0	1.01	-0.511	
MH9_Main	JUNCTION	0.000	0.258	0	09:06	0	2.67	0.189	
MJ_	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ1	JUNCTION	0.151	0.873	0	09:08	0.251	1.94	1.625	
MJ10	JUNCTION	0.018	0.194	0	09:05	0.0295	0.282	-0.082	
MJ100	JUNCTION	2.080	3.236	0	09:05	2.97	5.61	0.140	
MJ101	JUNCTION	0.478	0.486	0	09:05	0.684	0.724	-0.011	
MJ102	JUNCTION	0.409	0.487	0	09:05	0.584	1.14	0.000	
MJ103	JUNCTION	0.508	0.545	0	09:05	0.726	1.37	0.314	
MJ104	JUNCTION	0.096	0.346	0	09:07	0.138	0.794	-0.470	
MJ105	JUNCTION	0.574	1.281	0	09:05	0.821	4.05	23.905	
MJ106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ107	JUNCTION	0.055	0.393	0	09:08	0.0788	0.918	-0.767	
MJ108	JUNCTION	0.457	0.457	0	09:05	0.653	0.653	-1.613	

MJ109	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ110	JUNCTION	0.302	0.302	0	09:05	0.431	0.431	0.560	
MJ111	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ112	JUNCTION	0.404	1.574	0	09:06	0.577	2.82	0.206	
MJ113	JUNCTION	0.157	0.268	0	09:12	0.225	0.846	-0.726	
MJ114	JUNCTION	0.056	0.056	0	09:05	0.0802	0.0802	-1.114	
MJ115	JUNCTION	0.462	0.465	0	09:05	0.66	0.67	0.014	
MJ116	JUNCTION	0.933	1.054	0	09:05	1.33	1.83	0.290	
MJ117	JUNCTION	0.029	0.029	0	09:05	0.0417	0.0417	-8.181	
MJ118	JUNCTION	0.178	2.806	0	09:05	0.254	3.05	20.143	
MJ119	JUNCTION	0.209	2.189	0	09:09	0.299	4.11	4.942	
MJ12	JUNCTION	1.114	1.114	0	09:05	2.03	2.03	-0.147	
MJ120	JUNCTION	0.445	0.671	0	09:05	0.636	1.06	0.000	
MJ121	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ122	JUNCTION	1.298	1.600	0	09:05	1.86	2.82	-0.103	
MJ123	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ124	JUNCTION	0.404	0.970	0	09:05	0.578	1.83	10.141	
MJ125	JUNCTION	0.429	0.429	0	09:05	0.613	0.613	-1.814	
MJ126	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ127	JUNCTION	0.249	0.249	0	09:05	0.355	0.355	-1.489	
MJ128	JUNCTION	0.763	0.806	0	09:05	1.09	1.21	-0.227	
MJ129	JUNCTION	0.857	1.777	0	09:05	1.23	3.71	-1.387	
MJ13	JUNCTION	0.787	1.073	0	09:05	1.13	1.74	-0.010	
MJ130	JUNCTION	1.152	1.152	0	09:05	1.65	1.65	-2.223	
MJ131	JUNCTION	0.312	0.318	0	09:05	0.447	0.462	-0.168	
MJ132	JUNCTION	0.046	0.634	0	09:05	0.0658	1.96	-1.491	
MJ133	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ134	JUNCTION	1.364	2.694	0	09:08	1.95	6.15	1.363	
MJ135	JUNCTION	1.050	1.164	0	09:05	1.5	1.66	-0.266	
MJ136	JUNCTION	0.068	0.227	0	09:05	0.0967	0.309	-1.825	
MJ137	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ138	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ139	JUNCTION	0.457	0.457	0	09:05	0.653	0.653	0.014	
MJ14	JUNCTION	0.074	0.152	0	09:06	0.122	0.267	0.238	
MJ140	JUNCTION	0.000	0.019	0	09:07	0	0.0122	12.856	
MJ142	JUNCTION	0.000	0.409	0	09:10	0	0.414	1.192	
MJ143	JUNCTION	0.240	0.476	0	09:07	0.343	0.455	0.123	
MJ144	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ145	JUNCTION	0.405	0.405	0	09:05	0.579	0.579	0.186	
MJ146	JUNCTION	0.594	1.364	0	09:04	0.85	2.46	0.178	

MJ147	JUNCTION	0.387	2.942	0	09:08	0.553	6.13	-1.101	
MJ148	JUNCTION	1.241	3.170	0	09:07	1.77	6.91	0.128	
MJ149	JUNCTION	0.000	0.408	0	09:05	0	0.0676	0.134	
MJ15	JUNCTION	0.666	0.666	0	09:05	0.953	0.953	-0.287	
MJ150	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ151	JUNCTION	0.195	0.273	0	09:05	0.278	0.281	-4.508	
MJ152	JUNCTION	3.424	3.639	0	09:05	5.05	5.84	0.110	
MJ153	JUNCTION	0.632	0.661	0	09:05	0.903	1.32	0.280	
MJ154	JUNCTION	1.559	1.847	0	09:05	2.47	3.41	0.006	
MJ155	JUNCTION	0.660	0.660	0	09:05	1.34	1.34	0.199	
MJ156	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ157	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ158	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ16	JUNCTION	0.000	0.021	0	09:07	0	0.012	20.657	
MJ17	JUNCTION	0.175	0.175	0	09:05	0.251	0.251	-3.720	
MJ18	JUNCTION	0.041	0.277	0	09:07	0.0592	0.687	0.372	
MJ19	JUNCTION	0.398	0.502	0	09:05	0.569	0.784	6.066	
MJ2	JUNCTION	0.270	0.335	0	09:05	0.447	0.584	0.303	
MJ20	JUNCTION	0.059	0.086	0	09:05	0.0971	0.147	0.417	
MJ21	JUNCTION	0.090	0.453	0	09:06	0.128	0.756	0.321	
MJ22	JUNCTION	3.814	4.694	0	09:05	5.45	7.81	8.794	
MJ23	JUNCTION	0.085	0.085	0	09:05	0.147	0.147	0.031	
MJ24	JUNCTION	0.630	1.762	0	09:07	0.901	3.37	1.658	
MJ25	JUNCTION	0.359	0.383	0	09:05	0.589	0.659	0.202	
MJ26	JUNCTION	0.468	0.668	0	09:05	0.694	1.53	0.604	
MJ27	JUNCTION	0.343	1.954	0	09:18	0.592	7.14	0.073	
MJ28	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ29	JUNCTION	0.191	0.297	0	09:05	0.273	0.753	0.000	
MJ3	JUNCTION	0.670	2.102	0	09:06	0.958	5.5	0.241	
MJ30	JUNCTION	0.231	0.341	0	09:05	0.383	0.649	0.303	
MJ31	JUNCTION	0.273	0.528	0	09:07	0.453	1.1	-0.330	
MJ32	JUNCTION	0.174	0.232	0	09:05	0.288	0.435	0.399	
MJ33	JUNCTION	0.000	0.150	0	09:09	0	0.395	-0.642	
MJ34	JUNCTION	0.308	0.332	0	09:05	0.44	0.481	-0.016	
MJ35	JUNCTION	0.215	1.807	0	09:18	0.372	6.56	0.189	
MJ36	JUNCTION	2.070	2.272	0	09:05	2.96	3.36	-0.909	
MJ37	JUNCTION	0.143	0.143	0	09:05	0.248	0.248	-2.204	
MJ38	JUNCTION	0.197	0.215	0	09:05	0.282	0.401	0.000	
MJ39	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ40	JUNCTION	0.000	0.044	0	09:07	0	0.0414	7.610	

MJ41	JUNCTION	0.000	0.063	0	09:06	0	0.0291	9.740	
MJ42	JUNCTION	0.206	1.696	0	09:18	0.294	6.11	0.124	
MJ43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ44	JUNCTION	0.061	0.061	0	09:05	0.102	0.102	2.511	
MJ45	JUNCTION	0.098	0.098	0	09:05	0.141	0.141	-0.406	
MJ46	JUNCTION	0.050	0.057	0	09:05	0.0715	0.0855	-2.611	
MJ47	JUNCTION	0.182	0.182	0	09:05	0.26	0.262	0.000	
MJ48	JUNCTION	0.319	1.625	0	09:07	0.55	3.32	1.810	
MJ49	JUNCTION	0.000	0.089	0	09:07	0	0.203	-0.282	
MJ5	JUNCTION	0.182	0.182	0	09:05	0.253	0.253	0.031	
MJ50	JUNCTION	0.000	0.066	0	09:07	0	0.138	78.112	
MJ51	JUNCTION	0.074	0.074	0	09:05	0.106	0.106	0.108	
MJ52	JUNCTION	0.273	0.273	0	09:05	0.391	0.648	32.756	
MJ53	JUNCTION	0.025	0.025	0	09:05	0.0353	0.0353	-4.849	
MJ54	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ55	JUNCTION	0.364	0.902	0	09:07	0.628	1.71	-0.036	
MJ56	JUNCTION	0.076	0.076	0	09:05	0.109	0.11	-1.045	
MJ57	JUNCTION	0.123	0.294	0	09:06	0.176	0.608	0.127	
MJ58	JUNCTION	0.075	0.310	0	09:05	0.107	0.539	0.000	
MJ59	JUNCTION	0.313	0.313	0	09:05	0.447	0.447	0.000	
MJ60	JUNCTION	0.026	0.396	0	09:07	0.0366	0.708	0.146	
MJ61	JUNCTION	0.262	0.414	0	09:05	0.375	0.693	0.000	
MJ62	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ63	JUNCTION	0.082	1.658	0	09:18	0.117	5.85	0.212	
MJ64	JUNCTION	0.180	0.272	0	09:05	0.258	0.486	6.451	
MJ65	JUNCTION	0.164	0.234	0	09:05	0.235	0.379	-0.817	
MJ66	JUNCTION	0.018	0.158	0	09:06	0.0313	0.265	0.288	
MJ67	JUNCTION	1.464	1.464	0	09:05	2.09	2.09	1.181	
MJ68	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ69	JUNCTION	0.278	0.412	0	09:05	0.397	0.673	0.322	
MJ7	JUNCTION	1.421	1.615	0	09:05	1.98	2.37	0.255	
MJ70	JUNCTION	0.579	0.764	0	09:05	0.828	1.5	0.639	
MJ71	JUNCTION	0.463	0.463	0	09:05	0.799	0.799	-1.543	
MJ72	JUNCTION	0.260	1.526	0	09:17	0.371	5.27	0.185	
MJ73	JUNCTION	0.072	0.250	0	09:06	0.103	0.409	-1.026	
MJ74	JUNCTION	0.467	0.862	0	09:15	0.668	1.97	-0.329	
MJ75	JUNCTION	0.029	0.115	0	09:08	0.041	0.311	0.633	
MJ76	JUNCTION	0.093	0.244	0	09:05	0.133	0.385	0.488	
MJ77	JUNCTION	0.038	0.178	0	09:05	0.0539	0.271	0.239	
MJ78	JUNCTION	0.018	0.235	0	09:06	0.0264	0.596	-1.769	
MJ79	JUNCTION	0.038	0.777	0	09:19	0.0548	1.97	0.012	

MJ8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ80	JUNCTION	0.180	0.286	0	09:05	0.258	0.437	-0.208	
MJ81	JUNCTION	0.196	0.236	0	09:05	0.28	0.57	0.088	
MJ82	JUNCTION	0.213	0.780	0	09:18	0.304	1.99	0.218	
MJ83	JUNCTION	0.072	0.867	0	09:10	0.103	2.95	0.569	
MJ84	JUNCTION	0.360	0.360	0	09:05	0.514	0.514	-0.643	
MJ85	JUNCTION	0.000	1.013	0	09:15	0	1.81	0.112	
MJ86	JUNCTION	0.255	0.255	0	09:05	0.364	0.364	0.190	
MJ87	JUNCTION	0.448	0.490	0	09:05	0.64	0.947	0.000	
MJ88	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ89	JUNCTION	0.293	1.028	0	09:08	0.419	3.37	0.087	
MJ9	JUNCTION	0.393	0.393	0	09:05	0.678	0.678	0.261	
MJ90	JUNCTION	0.429	0.512	0	09:05	0.613	0.97	0.000	
MJ91	JUNCTION	0.061	0.150	0	09:05	0.0867	0.25	-2.638	
MJ92	JUNCTION	0.812	1.335	0	09:06	1.16	3.23	0.262	
MJ93	JUNCTION	0.513	1.080	0	09:14	0.734	2.18	0.127	
MJ94	JUNCTION	0.000	0.046	0	09:05	0	0.0689	0.000	
MJ95	JUNCTION	1.182	1.182	0	09:05	1.69	1.69	0.971	
MJ96	JUNCTION	0.000	0.242	0	09:25	0	0.997	1.691	
MJ97	JUNCTION	0.035	0.525	0	09:06	0.0503	0.585	0.000	
MJ98	JUNCTION	0.000	0.904	0	09:07	0	1.98	0.341	
MJ99	JUNCTION	0.056	0.589	0	09:08	0.0802	1.37	-0.025	
OGS-	JUNCTION	0.000	0.168	0	08:50	0	1.9	0.003	
RICE_POND_OUTLET	JUNCTION	0.000	0.293	0	10:29	0	6.88	0.021	
OF10-	OUTFALL	1.124	1.124	0	09:05	1.61	1.61	0.000	
OF11-M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF12-	OUTFALL	0.000	0.724	0	09:09	0	0.819	0.000	
OF13-	OUTFALL	0.000	0.168	0	08:50	0	1.9	0.000	
OF14-	OUTFALL	0.000	0.293	0	10:30	0	6.87	0.000	
OF15-	OUTFALL	3.225	3.225	0	09:05	4.61	4.61	0.000	
OF16-	OUTFALL	0.000	0.262	0	09:09	0	1.34	0.000	
OF17-	OUTFALL	0.243	1.547	0	09:05	0.347	5.19	0.000	
OF18-M	OUTFALL	0.123	0.123	0	09:05	0.175	0.175	0.000	
OF19-	OUTFALL	0.375	0.507	0	09:05	0.536	1.35	0.000	
OF1-M	OUTFALL	0.000	0.897	0	09:19	0	3.26	0.000	
OF20-	OUTFALL	0.000	0.606	0	09:07	0	7.2	0.000	
OF21-	OUTFALL	1.121	1.121	0	09:05	1.6	1.6	0.000	
OF22_M	OUTFALL	0.000	0.022	0	09:09	0	0.01	0.000	
OF23-	OUTFALL	2.287	2.287	0	09:05	3.27	3.27	0.000	
OF24-	OUTFALL	3.587	4.124	0	09:05	8.46	12	0.000	
OF25-	OUTFALL	0.000	0.187	0	09:08	0	2.33	0.000	

OF26-M	OUTFALL	0.368	2.331	0	09:10	0.527	4.4	0.000	
OF27-1	OUTFALL	0.551	0.553	0	09:05	0.787	3.04	0.000	
OF27-M	OUTFALL	1.230	1.265	0	09:05	1.76	2.28	0.000	
OF28-	OUTFALL	1.867	1.867	0	09:05	2.62	2.62	0.000	
OF29-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF2-M	OUTFALL	0.000	1.953	0	09:19	0	7.14	0.000	
OF2-M-	OUTFALL	0.000	0.363	0	09:06	0	0.677	0.000	
OF3-	OUTFALL	0.220	0.489	0	09:06	0.38	3.34	0.000	
OF30-M	OUTFALL	0.223	0.750	0	09:06	0.319	1.56	0.000	
OF31-M	OUTFALL	0.239	0.748	0	09:07	0.342	1.86	0.000	
OF32-M	OUTFALL	0.000	4.056	0	09:07	0	7.18	0.000	
OF33-	OUTFALL	0.000	0.580	0	09:09	0	4.4	0.000	
OF34-	OUTFALL	4.481	4.481	0	09:05	7.69	7.69	0.000	
OF35-	OUTFALL	0.835	0.835	0	09:10	2.22	2.22	0.000	
OF36-	OUTFALL	1.201	1.201	0	09:05	3.36	3.36	0.000	
OF37-	OUTFALL	3.455	3.455	0	09:15	11	11	0.000	
OF38-	OUTFALL	1.974	1.974	0	09:10	5.25	5.25	0.000	
OF39-	OUTFALL	2.855	2.855	0	09:05	4.67	4.67	0.000	
OF3-M	OUTFALL	0.000	0.899	0	09:06	0	1.42	0.000	
OF40-	OUTFALL	2.345	2.345	0	09:05	3.83	3.83	0.000	
OF41-	OUTFALL	1.955	1.955	0	09:05	3.19	3.19	0.000	
OF42-	OUTFALL	5.020	5.020	0	09:05	8.62	8.62	0.000	
OF43-	OUTFALL	7.776	7.776	0	09:05	13.3	13.3	0.000	
OF44-	OUTFALL	6.679	6.679	0	09:05	11.5	11.5	0.000	
OF45-	OUTFALL	6.559	6.559	0	09:05	11.3	11.3	0.000	
OF46-	OUTFALL	9.841	9.841	0	09:05	16.9	16.9	0.000	
OF47-	OUTFALL	10.726	10.726	0	09:05	18.4	18.4	0.000	
OF48-	OUTFALL	5.896	5.896	0	09:15	18.8	18.8	0.000	
OF49-	OUTFALL	5.102	5.102	0	09:05	8.76	8.76	0.000	
OF4-M	OUTFALL	0.394	0.805	0	09:05	0.563	1.3	0.000	
OF50	OUTFALL	3.766	3.766	0	09:05	6.46	6.46	0.000	
OF51	OUTFALL	3.562	3.562	0	09:05	5.82	5.82	0.000	
OF52	OUTFALL	4.373	4.373	0	09:05	7.15	7.15	0.000	
OF53	OUTFALL	8.003	8.003	0	09:05	13.7	13.7	0.000	
OF54	OUTFALL	6.674	6.674	0	09:05	11.5	11.5	0.000	
OF55	OUTFALL	2.195	2.195	0	09:05	3.59	3.59	0.000	
OF56	OUTFALL	6.120	6.120	0	09:05	10	10	0.000	
OF57	OUTFALL	2.305	2.305	0	09:05	3.77	3.77	0.000	
OF58	OUTFALL	8.573	8.573	0	09:05	22	22	0.000	
OF59	OUTFALL	2.919	2.919	0	09:05	4.05	4.05	0.000	
OF5-M	OUTFALL	0.928	0.970	0	09:05	1.33	1.64	0.000	

OF6-	OUTFALL	0.321	0.414	0	09:05	0.459	1.17	0.000	
OF60	OUTFALL	7.577	7.577	0	09:05	16.6	16.6	0.000	
OF61	OUTFALL	1.957	1.957	0	09:15	6.25	6.25	0.000	
OF62	OUTFALL	0.139	0.139	0	09:05	0.282	0.282	0.000	
OF7-M	OUTFALL	0.000	1.877	0	09:08	0	4.77	0.000	
OF8-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF9-M	OUTFALL	0.415	3.344	0	09:06	0.593	6.2	0.000	
Gill_RD_Pond	STORAGE	0.315	1.127	0	09:05	0.451	2.84	3.343	
Rice_Pond	STORAGE	0.423	2.877	0	09:12	0.631	10.5	0.004	

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters
CB15	JUNCTION	0.38	1.100	0.000
CB16	JUNCTION	0.25	1.253	0.027
CB17	JUNCTION	0.36	2.485	0.000
CB18	JUNCTION	0.17	1.380	0.000
CB19	JUNCTION	0.23	1.200	0.000
CB20	JUNCTION	0.27	1.420	0.000
CB21	JUNCTION	0.29	1.256	0.934
CB30_1	JUNCTION	1.04	1.270	0.000
CB31	JUNCTION	1.12	0.830	0.000
CB32	JUNCTION	1.23	0.920	0.000
CB33	JUNCTION	1.38	1.090	0.000
CB41	JUNCTION	0.76	0.550	0.000
CB42	JUNCTION	1.41	0.780	0.000
CB-58	JUNCTION	1.02	1.500	0.000
CBMH_1	JUNCTION	2.12	1.166	0.000
CBMH_40	JUNCTION	0.31	1.951	0.000
CBMH_41	JUNCTION	1.61	1.653	0.000
CBMH_42	JUNCTION	0.27	1.404	0.000
CBMH_44	JUNCTION	2.53	1.573	0.000
CBMH_46	JUNCTION	1.84	0.641	0.564

CBMH1	JUNCTION	0.26	1.150	0.000
CBMH7	JUNCTION	0.24	1.570	0.000
DICBMH42	JUNCTION	14.95	0.256	1.369
J101	JUNCTION	2.42	1.000	0.000
J102	JUNCTION	1.50	1.286	0.000
J110	JUNCTION	2.46	1.145	0.000
J113	JUNCTION	2.40	1.000	0.000
J125	JUNCTION	0.64	0.513	2.482
J127	JUNCTION	0.29	1.957	0.000
J128	JUNCTION	0.33	1.810	0.000
J34	JUNCTION	0.02	1.206	0.264
J49	JUNCTION	0.35	0.960	0.860
J91	JUNCTION	20.76	1.133	2.934
J93	JUNCTION	0.15	0.480	0.000
J95	JUNCTION	0.09	0.390	0.000
J98	JUNCTION	2.15	0.590	0.000
MH_11	JUNCTION	0.37	2.875	0.000
MH_14	JUNCTION	0.50	2.459	0.000
MH_15	JUNCTION	0.44	2.514	0.000
MH_16	JUNCTION	0.52	2.434	0.000
MH_17	JUNCTION	2.43	2.116	0.000
MH_27	JUNCTION	0.51	1.943	0.000
MH_29	JUNCTION	0.34	1.494	0.000
MH_30	JUNCTION	0.43	1.535	0.000
MH_34	JUNCTION	0.57	2.494	0.000
MH_35	JUNCTION	0.64	2.436	0.000
MH_36	JUNCTION	0.68	2.359	0.000
MH_37	JUNCTION	0.78	2.032	0.096
MH_38	JUNCTION	2.73	1.867	0.330
MH_39	JUNCTION	3.70	1.284	0.681
MH_43	JUNCTION	0.37	1.304	0.000
MH_45	JUNCTION	2.58	1.311	0.000
MH_47	JUNCTION	2.65	0.831	0.784
MH_56	JUNCTION	0.71	0.530	0.000
MH_64	JUNCTION	2.44	0.165	1.563
MH_65	JUNCTION	4.29	0.488	1.452
MH_66	JUNCTION	4.73	0.570	1.366
MH_67	JUNCTION	4.99	0.632	1.187
MH_68	JUNCTION	6.19	0.769	0.498
MH1	JUNCTION	0.49	2.590	0.000
MH1_Main	JUNCTION	1.05	1.470	0.000

MH10	JUNCTION	0.19	1.472	0.078
MH10_Main	JUNCTION	0.35	1.808	0.000
MH11	JUNCTION	0.34	1.499	0.691
MH11__S	JUNCTION	0.36	0.612	1.088
MH12	JUNCTION	0.19	1.021	0.549
MH13_Main_	JUNCTION	0.17	0.948	0.319
MH14	JUNCTION	0.37	0.420	3.990
MH14_Main	JUNCTION	0.44	1.217	0.314
MH15	JUNCTION	0.42	0.555	4.365
MH15_Main	JUNCTION	0.56	1.042	0.908
MH2	JUNCTION	0.37	2.350	0.000
MH2_Main	JUNCTION	1.15	1.107	0.000
MH2_S	JUNCTION	0.09	0.188	1.512
MH21	JUNCTION	1.18	1.680	0.000
MH22	JUNCTION	1.19	1.510	0.000
MH23	JUNCTION	1.28	1.570	0.000
MH24	JUNCTION	1.41	1.655	0.000
MH25	JUNCTION	0.32	1.489	0.661
MH25-1	JUNCTION	0.62	1.482	0.608
MH3	JUNCTION	0.37	2.570	0.000
MH3_Main	JUNCTION	0.15	0.142	1.148
MH30	JUNCTION	0.16	2.265	0.029
MH31	JUNCTION	0.22	1.288	1.256
MH32	JUNCTION	0.25	1.144	1.136
MH33	JUNCTION	0.26	1.027	1.309
MH36	JUNCTION	0.10	0.112	2.514
MH4	JUNCTION	0.26	1.770	0.000
MH4_Main	JUNCTION	0.56	1.520	0.000
MH40	JUNCTION	0.24	0.687	1.976
MH41	JUNCTION	0.19	0.377	2.275
MH5	JUNCTION	0.58	2.250	0.000
MH5_Main	JUNCTION	1.85	1.580	0.000
MH6	JUNCTION	0.39	1.765	0.535
MH6_Main	JUNCTION	2.06	1.834	0.746
MH7	JUNCTION	0.65	1.580	0.000
MH8	JUNCTION	0.29	1.596	0.314
MH8_Main	JUNCTION	1.78	1.239	0.000
MH9	JUNCTION	0.25	1.320	0.260
MH9_Main	JUNCTION	0.38	1.479	0.000
MJ105	JUNCTION	14.93	1.587	0.000
MJ146	JUNCTION	1.21	1.700	0.000

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Node Flooding Summary
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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CMS	Time of Max Occurrence days	hr:min	Total Flood Volume 10^6 ltr	Maximum Ponded Depth Meters
CB15	0.15	0.193	0	09:04	0.058	0.000
CB17	0.01	0.022	0	09:04	0.000	0.000
CB18	0.01	0.044	0	09:04	0.000	0.000
CB19	0.10	0.126	0	09:05	0.024	0.000
CB20	0.01	0.025	0	09:04	0.000	0.000
CB30_1	0.01	0.023	0	09:08	0.000	0.000
CB31	0.98	0.077	0	09:07	0.132	0.000
CB32	0.53	0.040	0	09:15	0.061	0.000
CB33	0.44	0.087	0	09:15	0.077	0.000
CB41	0.54	0.096	0	09:06	0.122	0.000
CB42	0.53	0.042	0	09:14	0.078	0.000
CB-58	0.01	0.026	0	09:03	0.000	0.000
CBMH_1	1.28	2.871	0	09:05	2.820	0.000
CBMH_40	0.01	0.030	0	09:05	0.000	0.000
CBMH_41	0.01	0.056	0	09:04	0.000	0.000
CBMH_42	0.01	0.014	0	09:06	0.000	0.000
CBMH_44	0.01	0.044	0	09:04	0.000	0.000
CBMH1	0.01	0.055	0	09:04	0.000	0.000
CBMH7	0.01	0.105	0	09:04	0.000	0.000
J101	1.97	0.391	0	09:06	1.219	0.000
J102	1.07	0.195	0	09:05	0.528	0.000
J110	0.01	0.008	0	08:53	0.000	0.000
J113	0.66	0.061	0	09:13	0.071	0.000
J127	0.01	0.014	0	09:07	0.000	0.000
J128	0.01	0.067	0	09:06	0.002	0.000
J93	0.01	0.006	0	09:08	0.000	0.000
J95	0.01	0.004	0	09:09	0.000	0.000
J98	1.05	0.068	0	09:10	0.124	0.000

MH_11	0.01	0.096	0	09:04	0.000	0.000
MH_14	0.26	0.178	0	09:05	0.088	0.000
MH_15	0.01	0.016	0	09:04	0.000	0.000
MH_16	0.01	0.022	0	09:04	0.000	0.000
MH_17	0.01	0.254	0	09:03	0.000	0.000
MH_27	0.27	0.363	0	09:06	0.201	0.000
MH_29	0.01	0.052	0	09:03	0.000	0.000
MH_30	0.01	0.137	0	09:03	0.000	0.000
MH_34	0.21	0.124	0	09:05	0.053	0.000
MH_35	0.01	0.122	0	09:02	0.000	0.000
MH_36	0.01	0.123	0	09:02	0.000	0.000
MH_43	0.01	0.003	0	09:06	0.000	0.000
MH_45	0.01	0.058	0	09:04	0.000	0.000
MH_56	0.20	0.104	0	09:12	0.020	0.000
MH1	0.01	0.011	0	09:03	0.000	0.000
MH1_Main	0.01	0.063	0	09:08	0.000	0.000
MH10_Main	0.01	0.045	0	09:09	0.000	0.000
MH2	0.14	0.087	0	09:03	0.022	0.000
MH2_Main	0.01	0.235	0	10:11	0.001	0.000
MH21	0.58	0.247	0	09:08	0.367	0.000
MH22	0.01	0.039	0	09:03	0.000	0.000
MH23	0.01	0.056	0	09:02	0.000	0.000
MH24	0.01	0.007	0	09:08	0.000	0.000
MH3	0.01	0.072	0	09:03	0.000	0.000
MH4	0.01	0.200	0	09:04	0.000	0.000
MH4_Main	0.01	0.084	0	09:05	0.000	0.000
MH5	0.03	0.118	0	09:08	0.006	0.000
MH5_Main	0.74	0.181	0	09:39	0.173	0.000
MH7	0.01	0.010	0	09:20	0.000	0.000
MH8_Main	0.42	0.078	0	09:11	0.055	0.000
MH9_Main	0.01	0.037	0	09:07	0.000	0.000
MJ105	0.01	1.064	0	09:04	0.001	0.000
MJ146	0.01	1.047	0	09:04	0.003	0.000

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Storage Volume Summary
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	Average	Avg	Evap	Exfil	Maximum	Max	Time of Max	Maximum

Storage Unit	Volume 1000 m3	Pcnt Full	Pcnt Loss	Pcnt Loss	Volume 1000 m3	Pcnt Full	Occurrence days	Occurrence hr:min	Outflow CMS
Gill_RD_Pond	0.651	22	0	0	1.437	49	0	09:52	0.135
Rice_Pond	4.376	31	0	0	7.480	54	0	10:29	0.293

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Outfall Loading Summary
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Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
OF10-	99.94	0.040	1.124	1.607
OF11-M	0.00	0.000	0.000	0.000
OF12-	95.68	0.027	0.724	0.819
OF13-	99.79	0.042	0.168	1.904
OF14-	99.98	0.121	0.293	6.873
OF15-	99.98	0.116	3.225	4.610
OF16-	99.78	0.033	0.262	1.338
OF17-	99.83	0.139	1.547	5.191
OF18-M	99.66	0.004	0.123	0.175
OF19-	99.87	0.031	0.507	1.349
OF1-M	94.47	0.101	0.897	3.262
OF20-	94.64	0.166	0.606	7.203
OF21-	99.94	0.040	1.121	1.602
OF22_M	3.51	0.010	0.022	0.010
OF23-	99.97	0.082	2.287	3.270
OF24-	99.98	0.355	4.124	12.035
OF25-	97.76	0.054	0.187	2.325
OF26-M	99.86	0.133	2.331	4.403
OF27-1	99.89	0.066	0.553	3.037
OF27-M	99.95	0.059	1.265	2.280
OF28-	99.97	0.066	1.867	2.621
OF29-	0.00	0.000	0.000	0.000
OF2-M	97.95	0.212	1.953	7.138
OF2-M-	97.69	0.020	0.363	0.677
OF3-	99.83	0.075	0.489	3.344

OF30-M	99.79	0.042	0.750	1.561
OF31-M	99.81	0.052	0.748	1.860
OF32-M	80.48	0.257	4.056	7.183
OF33-	99.68	0.110	0.580	4.404
OF34-	99.98	0.196	4.481	7.691
OF35-	22.07	0.332	0.835	2.221
OF36-	99.97	0.100	1.201	3.360
OF37-	24.27	1.473	3.455	11.030
OF38-	22.08	0.784	1.974	5.250
OF39-	99.97	0.119	2.855	4.666
OF3-M	95.57	0.043	0.899	1.419
OF40-	99.97	0.098	2.345	3.833
OF41-	99.96	0.082	1.955	3.194
OF42-	99.98	0.219	5.020	8.616
OF43-	99.99	0.339	7.776	13.346
OF44-	99.98	0.292	6.679	11.463
OF45-	99.98	0.286	6.559	11.257
OF46-	99.99	0.429	9.841	16.890
OF47-	99.99	0.468	10.726	18.407
OF48-	24.39	2.502	5.896	18.823
OF49-	99.98	0.223	5.102	8.756
OF4-M	99.86	0.035	0.805	1.302
OF50	99.97	0.164	3.766	6.462
OF51	99.98	0.149	3.562	5.820
OF52	99.98	0.183	4.373	7.146
OF53	99.99	0.349	8.003	13.734
OF54	99.98	0.291	6.674	11.455
OF55	99.97	0.092	2.195	3.587
OF56	99.99	0.255	6.120	10.001
OF57	99.97	0.096	2.305	3.767
OF58	99.99	0.643	8.573	22.009
OF59	99.99	0.104	2.919	4.054
OF5-M	99.94	0.043	0.970	1.637
OF6-	99.85	0.028	0.414	1.173
OF60	99.99	0.463	7.577	16.581
OF61	24.04	0.842	1.957	6.247
OF62	95.82	0.009	0.139	0.282
OF7-M	97.75	0.142	1.877	4.774
OF8-	0.00	0.000	0.000	0.000
OF9-M	99.87	0.169	3.344	6.196

System 87.15 14.498 165.628 368.531

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Link Flow Summary
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Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days	hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
C_dummy	CONDUIT	0.897	0	09:19	9.51	0.11	0.43
C1	CONDUIT	0.580	0	09:09	2.37	0.45	0.47
C100	CONDUIT	1.691	0	09:05	3.16	2.42	1.00
C106	CONDUIT	1.056	0	09:03	2.95	1.74	1.00
C108	CONDUIT	0.038	0	09:05	0.68	0.64	1.00
C110	CONDUIT	0.086	0	09:04	1.41	1.14	1.00
C111	CONDUIT	0.076	0	09:04	1.13	0.85	1.00
C113	CONDUIT	0.049	0	09:04	1.01	1.36	1.00
C114	CONDUIT	0.037	0	09:04	1.11	0.77	1.00
C115	CONDUIT	0.010	0	09:06	0.40	0.28	0.81
C116	CONDUIT	0.165	0	09:04	1.50	1.29	1.00
C118	CONDUIT	0.049	0	09:04	0.45	0.28	1.00
C119_1	CONDUIT	0.263	0	09:04	0.50	0.21	1.00
C119_2	CONDUIT	1.682	0	09:09	3.15	2.17	1.00
C123	CONDUIT	0.247	0	09:15	1.55	1.46	1.00
C124	CONDUIT	0.247	0	09:14	1.55	2.04	1.00
C125	CONDUIT	1.911	0	09:09	3.09	1.28	1.00
C126	CONDUIT	1.920	0	09:15	3.14	1.78	1.00
C127	CONDUIT	0.293	0	10:30	2.04	0.72	0.63
C128	CONDUIT	0.293	0	10:30	1.94	0.77	0.66
C129	CONDUIT	0.293	0	10:30	1.96	0.76	0.65
C130	CONDUIT	0.086	0	09:15	0.97	0.52	1.00
C145	CONDUIT	0.100	0	09:18	1.48	1.55	0.91
C147	CONDUIT	0.098	0	09:19	1.46	1.22	0.95
C150	CONDUIT	0.097	0	09:18	1.44	1.39	1.00
C151	CONDUIT	0.009	0	09:19	0.23	0.07	0.84
C156	CONDUIT	0.000	0	00:00	0.00	0.00	0.34
C159	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C160	CONDUIT	0.000	0	00:00	0.00	0.00	0.00

C161	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C164	CONDUIT	0.262	0	09:09	4.11	0.37	0.42
C165	CONDUIT	0.000	0	00:00	0.00	0.00	0.25
C167	CONDUIT	0.404	0	09:06	1.87	1.69	1.00
C185	CONDUIT	0.179	0	09:06	1.05	0.96	1.00
C186	CONDUIT	0.164	0	09:17	0.86	0.85	1.00
C187	CONDUIT	0.281	0	09:09	1.30	1.30	1.00
C188	CONDUIT	0.278	0	09:08	1.28	1.29	1.00
C189	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C190	CONDUIT	0.000	0	00:00	0.00	0.00	0.27
C193	CONDUIT	0.021	0	09:09	0.42	0.20	0.77
C194	CONDUIT	0.047	0	09:08	0.53	0.43	1.00
C2	CONDUIT	1.056	0	09:03	2.95	2.12	1.00
C200-	CONDUIT	0.493	0	09:09	1.74	1.03	1.00
C205	CONDUIT	0.106	0	09:07	1.20	0.68	0.91
C206	CONDUIT	0.107	0	09:09	1.12	0.78	1.00
C207	CONDUIT	0.107	0	09:09	0.81	0.72	1.00
C211	CONDUIT	0.135	0	09:53	0.37	0.03	0.64
C212	CONDUIT	0.135	0	09:53	1.04	0.21	0.29
C213	CONDUIT	0.135	0	09:53	1.08	0.22	0.28
C228	CONDUIT	0.083	0	09:11	1.18	0.71	1.00
C229	CONDUIT	0.000	0	00:00	0.00	0.00	0.06
C230	CONDUIT	0.093	0	09:08	1.37	0.71	1.00
C231	CONDUIT	0.090	0	10:11	1.27	1.46	1.00
C232	CONDUIT	0.085	0	09:07	1.21	0.89	1.00
C233	CONDUIT	0.091	0	09:15	1.29	1.25	1.00
C234	CONDUIT	0.000	0	00:00	0.00	0.00	0.03
C235	CONDUIT	0.012	0	09:13	0.30	0.09	0.69
C239	CONDUIT	0.105	0	09:29	1.49	0.95	1.00
C240	CONDUIT	0.098	0	09:06	1.40	0.60	1.00
C244	CONDUIT	0.034	0	09:06	0.50	0.24	1.00
C245	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C246	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C248	CONDUIT	1.313	0	09:05	2.97	1.86	1.00
C250	CONDUIT	0.000	0	00:00	0.00	0.00	0.50
C251	CONDUIT	0.041	0	09:05	1.32	0.42	0.45
C252	CONDUIT	0.115	0	09:02	1.63	0.99	1.00
C253	CONDUIT	0.283	0	09:02	4.05	3.12	1.00
C254	CONDUIT	0.276	0	09:03	4.18	1.06	1.00
C255	CONDUIT	0.055	0	09:02	1.05	0.18	1.00
C256	CONDUIT	0.185	0	09:04	1.81	0.93	1.00

C257	CONDUIT	0.084	0	09:04	1.22	0.47	1.00
C258	CONDUIT	0.245	0	09:04	3.47	5.48	1.00
C259	CONDUIT	0.052	0	09:04	0.75	0.35	1.00
C26	CONDUIT	0.193	0	09:05	1.22	0.92	1.00
C260	CONDUIT	0.080	0	09:22	1.22	1.25	1.00
C263	CONDUIT	0.118	0	09:04	1.76	1.07	1.00
C269	CONDUIT	0.011	0	09:05	1.33	0.04	0.13
C27	CONDUIT	0.321	0	09:03	2.91	2.01	1.00
C28	CONDUIT	0.463	0	09:05	1.84	0.94	1.00
C281	CONDUIT	0.081	0	09:22	1.15	1.24	1.00
C284	CONDUIT	0.104	0	09:35	1.47	1.83	1.00
C285	CONDUIT	0.060	0	09:04	0.87	1.04	1.00
C288	CONDUIT	0.168	0	09:38	2.39	2.68	0.98
C289	CONDUIT	0.168	0	08:50	1.70	0.67	0.60
C292	CONDUIT	0.168	0	08:50	1.51	0.86	0.66
C293	CONDUIT	0.168	0	08:50	1.83	0.60	0.56
C3	CONDUIT	0.464	0	09:05	1.64	0.91	1.00
C343	CONDUIT	0.154	0	09:40	2.19	4.29	1.00
C344	CONDUIT	0.154	0	09:40	0.97	1.27	1.00
C345	CONDUIT	0.470	0	09:40	2.17	2.25	1.00
C346	CONDUIT	0.624	0	09:09	2.79	1.46	0.74
C347	CONDUIT	0.626	0	09:09	4.74	0.46	0.47
C348	CONDUIT	0.606	0	09:07	3.81	6.01	1.00
C349	CONDUIT	0.314	0	09:04	2.50	0.81	1.00
C350	CONDUIT	0.215	0	09:17	1.71	1.85	1.00
C351	CONDUIT	0.000	0	00:00	0.00	0.00	0.27
C352	CONDUIT	0.105	0	09:09	1.59	0.64	0.58
C353	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C4	CONDUIT	0.092	0	09:17	1.12	0.57	0.99
C437	CONDUIT	0.010	0	09:04	0.85	0.58	1.00
C48	CONDUIT	0.054	0	09:03	1.12	1.18	1.00
C5	CONDUIT	0.445	0	09:05	0.81	0.03	0.59
C50	CONDUIT	0.178	0	09:03	2.52	1.29	1.00
C53	CONDUIT	0.668	0	09:03	2.36	1.20	1.00
C54	CONDUIT	0.347	0	09:03	1.60	1.35	1.00
C6	CONDUIT	0.451	0	09:05	1.35	0.37	0.55
C653	CONDUIT	1.747	0	09:07	3.96	2.49	1.00
C655	CONDUIT	0.454	0	09:04	1.61	1.32	1.00
C656	CONDUIT	0.309	0	09:13	1.23	1.34	1.00
C657	CONDUIT	0.548	0	09:06	2.30	0.70	0.66
C658	CONDUIT	1.313	0	09:05	2.97	1.88	1.00

C660	CONDUIT	0.235	0	09:14	1.60	1.06	1.00
C662	CONDUIT	0.269	0	09:11	2.06	9.07	0.77
C663	CONDUIT	0.153	0	09:38	1.48	0.90	1.00
C664	CONDUIT	0.126	0	10:07	1.79	1.47	1.00
C665	CONDUIT	0.018	0	09:08	0.45	0.07	0.56
C666	CONDUIT	1.326	0	09:06	3.05	1.46	0.96
C667	CONDUIT	0.094	0	09:11	1.04	0.24	0.36
C668	CONDUIT	0.207	0	09:10	6.47	0.03	0.13
C669	CONDUIT	0.207	0	09:10	3.68	0.06	0.16
C670	CONDUIT	0.008	0	09:05	0.11	0.02	0.34
C671	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C672	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C673	CONDUIT	0.084	0	09:07	1.01	0.46	0.94
C674	CONDUIT	0.187	0	09:08	3.82	1.20	1.00
C685	CONDUIT	0.000	0	00:00	0.00	0.00	0.05
C686	CONDUIT	0.049	0	09:07	1.92	0.17	0.28
C687	CONDUIT	0.049	0	09:07	2.51	0.12	0.23
C688	CONDUIT	0.049	0	09:08	1.49	0.10	0.21
C689	CONDUIT	0.318	0	09:07	1.55	0.72	0.56
C690	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C7	CONDUIT	0.393	0	09:06	2.59	0.20	0.25
C700	CONDUIT	0.223	0	09:31	3.15	5.37	1.00
C701	CONDUIT	0.310	0	09:07	2.45	1.37	0.75
C702	CONDUIT	0.299	0	09:12	3.82	0.49	0.49
C703	CONDUIT	0.000	0	00:00	0.00	0.00	0.05
C704	CONDUIT	0.018	0	09:05	0.15	0.06	0.50
C705	CONDUIT	0.095	0	09:09	0.92	0.47	0.39
C707	CONDUIT	0.094	0	09:10	0.95	0.38	0.38
C708	CONDUIT	0.207	0	09:10	1.52	0.48	0.49
C709	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C710	CONDUIT	0.055	0	09:10	1.62	0.65	1.00
C711	CONDUIT	0.055	0	09:10	1.12	0.84	1.00
C712	CONDUIT	0.062	0	11:08	1.26	1.23	1.00
C713	CONDUIT	0.029	0	09:06	0.60	0.63	1.00
C714	CONDUIT	0.154	0	09:40	0.97	1.37	1.00
C715	CONDUIT	0.624	0	09:09	2.21	2.28	1.00
C716	CONDUIT	0.919	0	09:04	3.25	1.77	1.00
C717	CONDUIT	0.483	0	09:09	1.71	1.19	1.00
C718	CONDUIT	0.036	0	09:03	0.51	0.51	1.00
C727	CONDUIT	0.047	0	09:09	1.43	0.10	0.21
C734	CONDUIT	0.317	0	09:06	1.53	0.79	0.56

C735	CONDUIT	0.317	0	09:06	1.45	0.84	0.59
C736	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C737	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C738	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C739	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C740	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C741	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C751	CONDUIT	0.269	0	09:11	2.25	0.44	0.77
C752	CONDUIT	0.198	0	09:37	2.06	1.81	1.00
C753	CONDUIT	0.154	0	09:38	2.18	1.67	1.00
C754	CONDUIT	0.066	0	10:11	1.02	0.71	1.00
C755	CONDUIT	0.083	0	09:11	0.52	0.77	1.00
C756	CONDUIT	0.080	0	09:10	0.71	0.69	1.00
C757	CONDUIT	1.212	0	09:08	2.74	1.69	1.00
C758	CONDUIT	0.724	0	09:09	2.20	1.22	0.86
C759	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C760	CONDUIT	0.002	0	09:18	0.24	0.14	0.55
C762	CONDUIT	0.013	0	09:04	0.21	0.07	0.96
C763	CONDUIT	0.606	0	09:07	4.29	0.77	0.83
C764	CONDUIT	0.624	0	09:09	2.21	2.05	1.00
C765	CONDUIT	0.025	0	09:05	0.51	0.67	1.00
C766	CONDUIT	0.024	0	09:05	0.50	1.38	1.00
C767	CONDUIT	1.313	0	09:05	2.97	1.94	1.00
C77	CONDUIT	0.347	0	09:03	1.60	1.35	1.00
C8	CONDUIT	0.794	0	09:13	3.42	0.10	0.32
C80	CONDUIT	0.347	0	09:03	2.18	1.71	1.00
C94	CONDUIT	0.463	0	09:05	1.78	1.16	1.00
CB72	CONDUIT	0.493	0	09:11	2.33	1.21	0.94
MC_C6	CHANNEL	0.000	0	00:00	0.00	0.00	0.10
MC1	CHANNEL	0.658	0	09:15	0.29	0.03	0.18
MC10	CHANNEL	0.363	0	09:06	0.52	0.00	0.09
MC100	CHANNEL	0.220	0	09:07	0.33	0.01	0.09
MC101	CHANNEL	0.120	0	09:08	0.07	0.00	0.23
MC102	CHANNEL	0.138	0	09:06	0.28	0.00	0.08
MC103	CHANNEL	0.127	0	09:06	0.12	0.00	0.13
MC104	CHANNEL	0.768	0	09:19	0.52	0.01	0.14
MC105	CHANNEL	0.540	0	09:18	0.24	0.02	0.18
MC107	CHANNEL	0.143	0	09:05	0.60	0.00	0.05
MC108	CHANNEL	0.063	0	09:06	0.35	0.00	0.04
MC109	CHANNEL	0.084	0	09:05	0.36	0.00	0.05
MC11	CHANNEL	0.088	0	09:07	0.26	0.00	0.06

MC12	CHANNEL	0.083	0	09:07	0.21	0.00	0.07
MC120	CHANNEL	0.715	0	09:16	0.50	0.04	0.44
MC121	CHANNEL	0.151	0	09:16	0.11	0.00	0.13
MC122	CHANNEL	0.144	0	09:16	0.20	0.00	0.09
MC123	CHANNEL	1.013	0	09:15	1.66	0.05	0.23
MC124	CHANNEL	0.114	0	09:06	0.32	0.00	0.06
MC125	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC126	CHANNEL	0.740	0	09:10	0.36	0.01	0.17
MC128	CHANNEL	0.043	0	09:08	0.03	0.00	0.31
MC129	CHANNEL	0.034	0	09:06	0.15	0.00	0.05
MC13	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC130	CHANNEL	0.082	0	09:08	0.02	0.00	0.34
MC131	CHANNEL	0.555	0	09:08	1.64	0.02	0.16
MC132	CHANNEL	0.405	0	09:08	0.56	0.05	0.34
MC133	CHANNEL	0.235	0	09:08	0.49	0.00	0.07
MC135	CHANNEL	0.046	0	09:05	0.17	0.00	0.06
MC136	CHANNEL	0.866	0	09:07	0.52	0.01	0.15
MC137	CHANNEL	0.242	0	09:25	0.22	0.01	0.12
MC139	CHANNEL	0.317	0	09:09	0.16	0.02	0.17
MC14	CHANNEL	1.005	0	09:06	0.60	0.01	0.15
MC141	CHANNEL	0.438	0	09:06	0.48	0.00	0.11
MC142	CHANNEL	0.188	0	09:06	0.28	0.00	0.10
MC143	CHANNEL	0.283	0	09:09	0.89	0.01	0.15
MC144	CHANNEL	0.305	0	09:09	0.96	0.01	0.16
MC145	CHANNEL	3.011	0	09:07	2.88	0.11	0.34
MC146	CHANNEL	0.421	0	09:06	0.10	0.00	0.39
MC147	CHANNEL	0.210	0	09:10	0.24	0.00	0.13
MC148	CHANNEL	0.422	0	09:05	0.20	0.02	0.59
MC149	CHANNEL	0.000	0	00:00	0.00	0.00	0.31
MC15	CHANNEL	0.143	0	09:08	0.16	0.00	0.11
MC150	CHANNEL	0.257	0	09:13	0.08	0.00	0.23
MC151	CHANNEL	0.056	0	09:09	0.11	0.00	0.08
MC152	CHANNEL	0.061	0	09:05	0.19	0.00	0.06
MC153	CHANNEL	0.122	0	09:06	0.12	0.00	0.20
MC154	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC155	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC156	CHANNEL	0.066	0	09:09	0.07	0.00	0.12
MC157	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC158	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC159	CHANNEL	1.353	0	09:08	0.28	0.02	0.29
MC16	CHANNEL	0.236	0	09:07	0.21	0.00	0.12

MC160	CHANNEL	0.122	0	09:19	0.04	0.00	0.31
MC161	CHANNEL	0.096	0	09:19	0.14	0.00	0.09
MC162	CHANNEL	0.013	0	09:11	0.01	0.00	0.18
MC163	CHANNEL	0.012	0	09:11	0.05	0.00	0.06
MC164	CHANNEL	0.004	0	09:08	0.04	0.00	0.11
MC165	CHANNEL	0.910	0	09:07	0.56	0.11	0.65
MC166	CHANNEL	0.007	0	09:08	0.11	0.00	0.08
MC167	CHANNEL	0.005	0	09:08	0.01	0.00	0.23
MC168	CHANNEL	1.177	0	09:05	0.34	0.21	1.00
MC169	CHANNEL	2.155	0	09:10	1.23	0.01	0.15
MC17	CHANNEL	0.227	0	09:07	0.22	0.00	0.11
MC170	CHANNEL	0.206	0	09:12	0.08	0.00	0.20
MC171	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC172	CHANNEL	1.263	0	09:07	1.46	0.06	0.29
MC173	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC174	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC175	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC176	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC177	CHANNEL	0.794	0	09:12	0.13	0.01	0.35
MC178	CHANNEL	0.383	0	09:06	0.31	0.00	0.21
MC179	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC18	CHANNEL	0.021	0	09:07	0.06	0.00	0.06
MC180	CHANNEL	0.000	0	00:00	0.00	0.00	0.20
MC181	CHANNEL	0.215	0	09:06	0.11	0.00	0.19
MC182_1	CHANNEL	0.456	0	09:07	0.22	0.01	0.17
MC182_2	CHANNEL	0.400	0	09:10	0.52	0.00	0.10
MC182_3	CHANNEL	0.415	0	09:09	0.22	0.01	0.16
MC182_5	CHANNEL	0.625	0	09:08	0.29	0.00	0.18
MC183	CHANNEL	0.592	0	09:05	0.17	0.02	0.40
MC184	CHANNEL	0.978	0	09:06	0.51	0.01	0.24
MC185	CHANNEL	0.119	0	09:05	0.31	0.01	0.26
MC186	CHANNEL	0.166	0	09:06	0.81	0.01	0.13
MC187	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC188	CHANNEL	2.083	0	09:15	0.47	0.02	0.39
MC189	CHANNEL	0.139	0	09:08	0.12	0.01	0.54
MC19	CHANNEL	0.107	0	09:06	0.13	0.00	0.10
MC190	CHANNEL	0.048	0	09:08	0.04	0.01	0.46
MC191	CHANNEL	0.000	0	00:00	0.00	0.00	0.34
MC192	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC193	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC194_1	CHANNEL	0.000	0	00:00	0.00	0.00	0.04

MC194_2	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC195	CHANNEL	0.019	0	09:07	0.05	0.00	0.07
MC196	CHANNEL	0.408	0	09:05	0.12	0.08	0.98
MC197	CHANNEL	0.351	0	09:03	0.20	0.05	0.78
MC198	CHANNEL	0.298	0	09:07	0.28	0.10	0.41
MC199	CHANNEL	0.367	0	09:08	0.57	0.04	0.31
MC2	CHANNEL	0.257	0	09:09	0.20	0.00	0.15
MC20	CHANNEL	0.248	0	09:08	0.27	0.01	0.11
MC200	CHANNEL	0.690	0	09:08	0.85	0.09	0.35
MC201	CHANNEL	0.370	0	09:09	0.28	0.03	0.51
MC202	CHANNEL	0.480	0	09:05	0.21	0.05	0.88
MC203	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC204	CHANNEL	0.000	0	00:00	0.00	0.00	0.14
MC205	CHANNEL	0.022	0	09:09	0.26	0.00	0.02
MC206	CHANNEL	1.010	0	09:09	0.38	0.02	0.27
MC207	CHANNEL	0.826	0	09:04	0.30	0.11	1.00
MC208	CHANNEL	2.718	0	09:09	0.93	2.27	0.70
MC209	CHANNEL	0.000	0	00:00	0.00	0.00	0.14
MC21	CHANNEL	0.450	0	09:06	1.13	0.00	0.07
MC210	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC211	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC212	CHANNEL	2.277	0	09:09	1.03	0.32	0.61
MC213	CHANNEL	0.385	0	09:14	0.23	0.01	0.15
MC214_1	CHANNEL	1.166	0	09:11	0.47	0.04	0.19
MC214_2	CHANNEL	0.333	0	09:13	0.23	0.01	0.14
MC215	CHANNEL	0.436	0	09:10	0.19	0.01	0.18
MC216	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC217	CHANNEL	0.000	0	00:00	0.00	0.00	0.12
MC218	CHANNEL	0.000	0	00:00	0.00	0.00	0.28
MC219	CHANNEL	0.409	0	09:10	0.31	0.00	0.14
MC22	CHANNEL	0.074	0	09:08	0.24	0.00	0.06
MC220	CHANNEL	0.796	0	09:05	0.37	0.07	0.70
MC221	CHANNEL	0.009	0	09:07	0.01	0.00	0.27
MC223	CHANNEL	0.009	0	09:07	0.15	0.00	0.06
MC224	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC225	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC226	CHANNEL	0.777	0	09:20	0.37	0.01	0.17
MC227	CHANNEL	0.794	0	09:13	0.28	0.04	0.21
MC228	CHANNEL	0.231	0	09:10	0.18	0.01	0.13
MC229	CHANNEL	0.225	0	09:30	0.22	0.01	0.11
MC23	CHANNEL	0.376	0	09:08	0.64	0.04	0.22

MC230	CHANNEL	0.838	0	09:09	0.62	0.01	0.13
MC231	CHANNEL	0.884	0	09:15	0.39	0.07	0.62
MC232	CHANNEL	0.262	0	09:09	0.31	0.00	0.10
MC24	CHANNEL	4.056	0	09:07	1.43	0.03	0.20
MC25	CHANNEL	0.080	0	09:06	0.17	0.00	0.08
MC26	CHANNEL	0.026	0	09:06	0.05	0.00	0.08
MC27	CHANNEL	0.597	0	09:09	0.66	0.00	0.11
MC28	CHANNEL	1.953	0	09:19	1.21	0.01	0.15
MC29	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC3	CHANNEL	1.877	0	09:08	0.97	0.02	0.16
MC30	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC31	CHANNEL	0.050	0	09:06	0.06	0.00	0.22
MC32	CHANNEL	0.313	0	09:08	0.32	0.01	0.11
MC33	CHANNEL	0.507	0	09:09	0.43	0.00	0.14
MC34	CHANNEL	0.206	0	09:08	0.48	0.00	0.07
MC35	CHANNEL	0.145	0	09:12	0.10	0.00	0.22
MC36	CHANNEL	0.150	0	09:09	0.18	0.01	0.10
MC37	CHANNEL	0.294	0	09:06	0.71	0.01	0.18
MC38	CHANNEL	1.805	0	09:19	0.92	0.02	0.16
MC39	CHANNEL	1.322	0	09:08	0.32	0.02	0.42
MC4	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC40	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC41	CHANNEL	0.095	0	09:11	0.04	0.00	0.22
MC42	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC43	CHANNEL	0.000	0	00:00	0.00	0.00	0.22
MC44	CHANNEL	0.022	0	09:15	0.04	0.00	0.09
MC45	CHANNEL	0.044	0	09:07	0.09	0.00	0.08
MC46	CHANNEL	0.063	0	09:06	0.09	0.00	0.10
MC47	CHANNEL	1.693	0	09:19	0.78	0.02	0.17
MC48	CHANNEL	0.000	0	00:00	0.00	0.00	0.50
MC49	CHANNEL	0.000	0	00:00	0.00	0.00	0.41
MC5	CHANNEL	0.177	0	09:05	0.34	0.00	0.08
MC50	CHANNEL	0.032	0	09:13	0.06	0.00	0.08
MC51	CHANNEL	0.029	0	09:06	0.07	0.00	0.07
MC52	CHANNEL	0.030	0	09:06	0.19	0.00	0.04
MC53	CHANNEL	0.046	0	09:07	0.08	0.00	0.10
MC54	CHANNEL	0.088	0	09:07	0.15	0.00	0.08
MC55	CHANNEL	0.029	0	09:11	0.01	0.00	0.22
MC56	CHANNEL	0.002	0	09:06	0.02	0.00	0.03
MC57	CHANNEL	0.042	0	09:11	0.06	0.00	0.09
MC58	CHANNEL	0.066	0	09:07	0.07	0.00	0.27

MC59	CHANNEL	0.057	0	09:07	0.13	0.00	0.07
MC6	CHANNEL	0.899	0	09:06	1.44	0.05	0.23
MC62	CHANNEL	0.000	0	00:00	0.00	0.00	0.27
MC64	CHANNEL	0.876	0	09:08	0.35	0.00	0.24
MC65	CHANNEL	0.009	0	09:07	0.02	0.00	0.08
MC66	CHANNEL	0.030	0	09:07	0.15	0.00	0.13
MC67	CHANNEL	0.011	0	09:07	0.01	0.00	0.36
MC68	CHANNEL	0.284	0	09:08	0.26	0.00	0.12
MC69	CHANNEL	0.226	0	09:05	0.10	0.00	0.36
MC7	CHANNEL	1.175	0	09:08	0.43	0.31	0.79
MC70	CHANNEL	0.390	0	09:07	0.55	0.00	0.09
MC71	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC72	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC73	CHANNEL	1.647	0	09:19	0.86	0.01	0.16
MC74	CHANNEL	0.145	0	09:06	0.10	0.00	0.18
MC75	CHANNEL	1.520	0	09:18	0.67	0.03	0.18
MC76	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC77	CHANNEL	0.050	0	09:06	0.12	0.00	0.07
MC78	CHANNEL	0.164	0	09:06	0.09	0.00	0.28
MC79	CHANNEL	0.148	0	09:08	0.27	0.00	0.08
MC8	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC80	CHANNEL	0.772	0	09:09	0.47	0.71	0.55
MC82	CHANNEL	0.000	0	00:00	0.00	0.00	0.20
MC83	CHANNEL	0.000	0	00:00	0.00	0.00	0.20
MC84	CHANNEL	0.376	0	09:07	0.70	0.00	0.08
MC85	CHANNEL	0.085	0	09:07	0.09	0.00	0.11
MC86	CHANNEL	0.576	0	09:07	1.57	0.02	0.16
MC87	CHANNEL	0.420	0	09:06	0.21	0.00	0.23
MC89	CHANNEL	0.130	0	09:08	0.09	0.00	0.14
MC9	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC90	CHANNEL	0.096	0	09:08	0.19	0.00	0.08
MC91	CHANNEL	0.094	0	09:20	0.21	0.00	0.07
MC92	CHANNEL	0.138	0	09:07	0.36	0.00	0.07
MC93	CHANNEL	0.083	0	09:07	0.30	0.00	0.05
MC97	CHANNEL	0.076	0	09:06	0.26	0.00	0.05
MC98	CHANNEL	0.142	0	09:06	0.50	0.00	0.06
MC99	CHANNEL	0.022	0	09:06	0.06	0.00	0.07
MJ-C5	CONDUIT	0.146	0	09:09	0.59	0.71	0.65
MJ-C6	CONDUIT	0.143	0	09:12	0.55	0.02	0.19
MJ-C7	CONDUIT	0.136	0	09:20	0.53	0.13	0.34
MJ-C8	CONDUIT	0.135	0	09:21	1.06	0.04	0.20

OL5	ORIFICE	0.135	0	09:52
OL1	DUMMY	0.293	0	10:29
OL10	DUMMY	0.195	0	09:07
OL11	DUMMY	0.262	0	09:09
OL12	DUMMY	0.229	0	09:15
OL13	DUMMY	0.316	0	09:08
OL14	DUMMY	0.316	0	09:04
OL15	DUMMY	0.316	0	09:02
OL16	DUMMY	0.050	0	09:08
OL17	DUMMY	0.111	0	09:06
OL18	DUMMY	0.145	0	09:27
OL19	DUMMY	0.202	0	09:08
OL2	DUMMY	0.124	0	09:10
OL20	DUMMY	0.107	0	09:08
OL21	DUMMY	0.000	0	00:00
OL22	DUMMY	0.006	0	09:07
OL23	DUMMY	0.266	0	09:18
OL24	DUMMY	0.065	0	09:14
OL25	DUMMY	0.316	0	09:04
OL26	DUMMY	0.044	0	09:08
OL27	DUMMY	0.287	0	09:09
OL28	DUMMY	0.316	0	09:06
OL29	DUMMY	0.225	0	09:12
OL3	DUMMY	0.316	0	09:05
OL30	DUMMY	0.000	0	00:00
OL31	DUMMY	0.049	0	09:07
OL32	DUMMY	0.218	0	09:08
OL33	DUMMY	0.000	0	00:00
OL34	DUMMY	0.316	0	09:05
OL35	DUMMY	0.055	0	09:10
OL36	DUMMY	0.081	0	09:13
OL37	DUMMY	0.316	0	09:06
OL38	DUMMY	0.316	0	09:05
OL39	DUMMY	0.060	0	09:08
OL4	DUMMY	0.046	0	09:08
OL40	DUMMY	0.128	0	09:07
OL41	DUMMY	0.000	0	00:00
OL42	DUMMY	0.197	0	09:09
OL43	DUMMY	0.000	0	00:00
OL44	DUMMY	0.000	0	00:00
OL45	DUMMY	0.143	0	09:10

OL46	DUMMY	0.161	0	09:14
OL47	DUMMY	0.088	0	09:08
OL48	DUMMY	0.006	0	09:19
OL49	DUMMY	0.000	0	00:00
OL50	DUMMY	0.004	0	09:17
OL51	DUMMY	0.153	0	09:07
OL52	DUMMY	0.128	0	09:08
OL53	DUMMY	0.105	0	09:08
OL6	DUMMY	0.011	0	09:05
OL7	DUMMY	0.222	0	09:08
OL8	DUMMY	0.259	0	09:08
OL9	DUMMY	0.316	0	09:02

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Flow Classification Summary
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	Adjusted	Fraction of Time in Flow Class								
Conduit	/Actual Length	Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C_dummy	1.00	0.00	0.00	0.00	0.05	0.95	0.00	0.00	0.01	0.00
C1	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.54	0.00
C100	1.00	0.00	0.00	0.00	0.77	0.00	0.00	0.23	0.00	0.00
C106	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.78	0.00
C108	1.00	0.23	0.00	0.00	0.31	0.00	0.00	0.46	0.53	0.00
C110	1.00	0.23	0.00	0.00	0.34	0.00	0.00	0.42	0.47	0.00
C111	1.00	0.60	0.02	0.00	0.38	0.00	0.00	0.00	0.45	0.00
C113	1.00	0.23	0.00	0.00	0.33	0.00	0.00	0.44	0.02	0.00
C114	1.00	0.23	0.00	0.00	0.24	0.00	0.00	0.53	0.54	0.00
C115	1.00	0.23	0.00	0.00	0.18	0.00	0.00	0.59	0.61	0.00
C116	1.00	0.52	0.03	0.00	0.45	0.00	0.00	0.00	0.38	0.00
C118	1.00	0.29	0.20	0.00	0.51	0.00	0.00	0.00	0.31	0.00
C119_1	1.00	0.35	0.14	0.00	0.51	0.00	0.00	0.00	0.31	0.00
C119_2	1.00	0.00	0.00	0.00	0.77	0.00	0.00	0.23	0.00	0.00
C123	1.00	0.00	0.00	0.00	0.77	0.00	0.00	0.23	0.11	0.00
C124	1.00	0.00	0.00	0.00	0.63	0.00	0.00	0.37	0.00	0.00
C125	1.00	0.00	0.00	0.00	0.74	0.00	0.00	0.25	0.00	0.00
C126	1.00	0.00	0.00	0.00	0.75	0.00	0.00	0.25	0.00	0.00

C127	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C128	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C129	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.18	0.00
C130	1.00	0.00	0.00	0.00	0.53	0.00	0.00	0.47	0.13	0.00
C145	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C147	1.00	0.00	0.00	0.00	0.11	0.02	0.00	0.87	0.00	0.00
C150	1.00	0.00	0.00	0.00	0.24	0.00	0.00	0.76	0.02	0.00
C151	1.00	0.21	0.01	0.00	0.32	0.00	0.00	0.45	0.50	0.00
C156	1.00	0.72	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C159	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C160	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C161	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C164	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.15	0.00
C165	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C167	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
C185	1.00	0.00	0.00	0.00	0.11	0.00	0.00	0.89	0.00	0.00
C186	1.00	0.00	0.00	0.00	0.44	0.00	0.00	0.55	0.04	0.00
C187	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.83	0.00
C188	1.00	0.01	0.00	0.00	0.08	0.00	0.00	0.91	0.00	0.00
C189	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C190	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C193	1.00	0.24	0.00	0.00	0.03	0.00	0.00	0.73	0.00	0.00
C194	1.00	0.21	0.02	0.00	0.19	0.00	0.00	0.58	0.06	0.00
C2	1.00	0.00	0.00	0.00	0.77	0.00	0.00	0.22	0.34	0.00
C200-	1.00	0.00	0.00	0.00	0.09	0.14	0.00	0.77	0.05	0.00
C205	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.00	0.00
C206	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.95	0.00	0.00
C207	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.01	0.00
C211	1.00	0.00	0.23	0.00	0.76	0.00	0.00	0.00	0.00	0.00
C212	1.00	0.23	0.00	0.00	0.39	0.00	0.00	0.38	0.00	0.00
C213	1.00	0.23	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00
C228	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.81	0.00
C229	1.00	0.96	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C230	1.00	0.00	0.82	0.00	0.18	0.00	0.00	0.00	0.57	0.00
C231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
C232	1.00	0.35	0.34	0.00	0.31	0.00	0.00	0.00	0.50	0.00
C233	1.00	0.00	0.35	0.00	0.65	0.00	0.00	0.00	0.17	0.00
C234	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C235	1.00	0.25	0.01	0.00	0.05	0.00	0.00	0.69	0.01	0.00
C239	1.00	0.23	0.00	0.00	0.25	0.00	0.00	0.52	0.54	0.00
C240	1.00	0.23	0.00	0.00	0.18	0.00	0.00	0.59	0.01	0.00

C244	1.00	0.23	0.00	0.00	0.18	0.00	0.00	0.58	0.01	0.00
C245	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C246	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C248	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C250	1.00	0.96	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C251	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C252	1.00	0.00	0.00	0.00	0.05	0.09	0.00	0.86	0.04	0.00
C253	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.02	0.00
C254	1.00	0.00	0.00	0.00	0.02	0.02	0.00	0.95	0.00	0.00
C255	1.00	0.23	0.00	0.00	0.05	0.00	0.00	0.72	0.00	0.00
C256	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C257	1.00	0.23	0.00	0.00	0.03	0.00	0.00	0.73	0.00	0.00
C258	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C259	1.00	0.23	0.00	0.00	0.04	0.00	0.00	0.73	0.00	0.00
C26	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.89	0.02	0.00
C260	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C263	1.00	0.23	0.00	0.00	0.04	0.00	0.00	0.73	0.00	0.00
C269	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C27	1.00	0.00	0.00	0.00	0.06	0.00	0.00	0.93	0.00	0.00
C28	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.90	0.00
C281	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.89	0.00	0.00
C284	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.00	0.00
C285	1.00	0.22	0.01	0.00	0.12	0.00	0.00	0.65	0.01	0.00
C288	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C289	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C292	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C293	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.25	0.00
C3	1.00	0.00	0.00	0.00	0.59	0.01	0.00	0.40	0.17	0.00
C343	1.00	0.00	0.00	0.00	0.15	0.00	0.00	0.85	0.00	0.00
C344	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.88	0.00
C345	1.00	0.00	0.00	0.00	0.39	0.00	0.00	0.61	0.00	0.00
C346	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C347	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.38	0.00
C348	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C349	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.96	0.00
C350	1.00	0.00	0.00	0.00	0.41	0.58	0.00	0.00	0.01	0.00
C351	1.00	0.76	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C352	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.17	0.00
C353	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C4	1.00	0.00	0.00	0.00	0.37	0.00	0.00	0.63	0.05	0.00
C437	1.00	0.23	0.00	0.00	0.06	0.00	0.00	0.70	0.01	0.00

C48	1.00	0.23	0.00	0.00	0.06	0.00	0.00	0.70	0.00	0.00
C5	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.98	0.00
C50	1.00	0.76	0.07	0.00	0.18	0.00	0.00	0.00	0.59	0.00
C53	1.00	0.00	0.00	0.00	0.36	0.01	0.00	0.63	0.16	0.00
C54	1.00	0.00	0.00	0.00	0.35	0.00	0.00	0.65	0.05	0.00
C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C653	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.95	0.00	0.00
C655	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.93	0.00	0.00
C656	1.00	0.00	0.00	0.00	0.58	0.00	0.00	0.42	0.00	0.00
C657	1.00	0.95	0.01	0.00	0.00	0.03	0.00	0.01	0.62	0.00
C658	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C660	1.00	0.00	0.00	0.00	0.19	0.47	0.00	0.34	0.45	0.00
C662	1.00	0.00	0.01	0.00	0.92	0.07	0.00	0.00	0.00	0.00
C663	1.00	0.00	0.00	0.00	0.22	0.00	0.00	0.77	0.02	0.00
C664	1.00	0.00	0.00	0.00	0.44	0.56	0.00	0.00	0.86	0.00
C665	1.00	0.00	0.96	0.00	0.04	0.00	0.00	0.00	0.62	0.00
C666	1.00	0.00	0.00	0.00	0.06	0.93	0.00	0.00	0.30	0.00
C667	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.95	0.01	0.00
C668	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C669	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
C670	1.00	0.01	0.74	0.00	0.26	0.00	0.00	0.00	0.61	0.00
C671	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C672	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C673	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.02	0.00
C674	1.00	0.02	0.00	0.00	0.21	0.77	0.00	0.00	0.08	0.00
C685	1.00	0.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C686	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C687	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C688	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.66	0.00
C689	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C690	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C7	1.00	0.00	0.00	0.00	0.46	0.54	0.00	0.00	0.04	0.00
C700	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
C701	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C702	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.08	0.00
C703	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C704	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.06	0.00
C705	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C707	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C708	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C709	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C710	1.00	0.00	0.00	0.00	0.02	0.04	0.00	0.93	0.01	0.00
C711	1.00	0.00	0.00	0.00	0.24	0.00	0.00	0.76	0.09	0.00
C712	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
C713	1.00	0.00	0.00	0.00	0.42	0.00	0.00	0.57	0.13	0.00
C714	1.00	0.00	0.01	0.00	0.21	0.00	0.78	0.00	0.00	0.00
C715	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.93	0.00	0.00
C716	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.95	0.00	0.00
C717	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.90	0.00	0.00
C718	1.00	0.01	0.72	0.00	0.28	0.00	0.00	0.00	0.55	0.00
C727	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C734	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C735	1.00	0.00	0.00	0.00	0.21	0.00	0.00	0.78	0.00	0.00
C736	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C737	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C739	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C740	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C741	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C751	1.00	0.01	0.00	0.00	0.15	0.16	0.00	0.68	0.13	0.00
C752	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
C753	1.00	0.00	0.00	0.00	0.08	0.00	0.00	0.92	0.00	0.00
C754	1.00	0.00	0.00	0.00	0.80	0.20	0.00	0.00	0.90	0.00
C755	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.04	0.00
C756	1.00	0.00	0.00	0.00	0.19	0.00	0.00	0.81	0.00	0.00
C757	1.00	0.01	0.00	0.00	0.06	0.00	0.00	0.93	0.00	0.00
C758	1.00	0.00	0.00	0.00	0.22	0.78	0.00	0.00	0.01	0.00
C759	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C760	1.00	0.23	0.01	0.00	0.76	0.00	0.00	0.00	0.62	0.00
C762	1.00	0.65	0.25	0.00	0.10	0.00	0.00	0.00	0.60	0.00
C763	1.00	0.00	0.05	0.00	0.56	0.39	0.00	0.00	0.00	0.00
C764	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
C765	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.86	0.00
C766	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.83	0.00
C767	1.00	0.01	0.00	0.00	0.07	0.00	0.00	0.92	0.00	0.00
C77	1.00	0.00	0.00	0.00	0.26	0.00	0.00	0.74	0.02	0.00
C8	1.00	0.02	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
C80	1.00	0.00	0.00	0.00	0.12	0.00	0.00	0.88	0.02	0.00
C94	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.41	0.00
CB72	1.00	0.00	0.00	0.00	0.21	0.01	0.00	0.78	0.10	0.00
MC_C6	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.69	0.00

MC10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC100	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC101	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC102	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.14	0.00
MC103	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC104	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC105	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.28	0.00
MC107	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.92	0.00
MC108	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.62	0.00
MC109	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.83	0.00
MC11	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC12	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC120	1.00	0.00	0.03	0.00	0.97	0.00	0.00	0.00	0.92	0.00
MC121	1.00	0.00	0.03	0.00	0.97	0.00	0.00	0.00	0.92	0.00
MC122	1.00	0.00	0.03	0.00	0.97	0.00	0.00	0.00	0.92	0.00
MC123	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
MC124	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC125	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC126	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC128	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC129	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC130	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC131	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.08	0.00
MC132	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC133	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.73	0.00
MC135	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.76	0.00
MC136	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.11	0.00
MC137	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC139	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.26	0.00
MC14	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.82	0.00
MC141	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.80	0.00
MC142	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC143	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.10	0.00
MC144	1.00	0.00	0.00	0.00	0.18	0.82	0.00	0.00	0.16	0.00
MC145	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.19	0.00
MC146	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.31	0.00
MC147	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC148	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC149	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00

MC150	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC151	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.71	0.00
MC152	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.60	0.00
MC153	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00
MC154	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC155	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC156	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC157	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC158	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC159	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC16	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC160	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC161	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC162	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC163	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC164	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC165	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.63	0.00
MC166	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.96	0.00
MC167	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC168	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.36	0.00
MC169	1.00	0.22	0.00	0.00	0.73	0.05	0.00	0.00	0.01	0.00
MC17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC170	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.37	0.00
MC171	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC172	1.00	0.00	0.00	0.00	0.71	0.29	0.00	0.00	0.97	0.00
MC173	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC174	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC175	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC176	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC177	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.32	0.00
MC178	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC179	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC18	1.00	0.00	0.22	0.00	0.78	0.00	0.00	0.00	0.61	0.00
MC180	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC181	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC182_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.80	0.00
MC182_2	1.00	0.00	0.21	0.00	0.79	0.00	0.00	0.00	0.02	0.00
MC182_3	1.00	0.01	0.20	0.00	0.79	0.00	0.00	0.00	0.00	0.00
MC182_5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC183	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.10	0.00
MC184	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.82	0.00

MC185	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC186	1.00	0.00	0.00	0.00	0.80	0.20	0.00	0.00	0.94	0.00
MC187	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC188	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC189	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.98	0.00
MC19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC190	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC191	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC192	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC193	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_1	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_2	1.00	0.69	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC195	1.00	0.00	0.69	0.00	0.31	0.00	0.00	0.00	0.61	0.00
MC196	1.00	0.00	0.20	0.00	0.80	0.00	0.00	0.00	0.54	0.00
MC197	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.71	0.00
MC198	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC199	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC200	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC201	1.00	0.82	0.14	0.00	0.03	0.00	0.00	0.00	0.62	0.00
MC202	1.00	0.01	0.82	0.00	0.18	0.00	0.00	0.00	0.61	0.00
MC203	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC204	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC205	1.00	0.96	0.00	0.00	0.04	0.00	0.00	0.00	0.61	0.00
MC206	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.47	0.00
MC207	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.80	0.00
MC208	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC209	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC21	1.00	0.18	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00
MC210	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC211	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC212	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.85	0.00
MC213	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC214_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC214_2	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.93	0.00
MC215	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC216	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC217	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC218	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC219	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.11	0.00

MC22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC220	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.91	0.00
MC221	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC223	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.93	0.00
MC224	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC225	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC226	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC227	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.28	0.00
MC228	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.19	0.00
MC229	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.35	0.00
MC23	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC230	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.93	0.00
MC231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.93	0.00
MC232	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC24	1.00	0.19	0.00	0.00	0.77	0.04	0.00	0.00	0.01	0.00
MC25	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.93	0.00
MC26	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC27	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
MC28	1.00	0.00	0.00	0.00	0.88	0.12	0.00	0.00	0.04	0.00
MC29	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC30	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00
MC32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC34	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC35	1.00	0.00	0.08	0.00	0.92	0.00	0.00	0.00	0.78	0.00
MC36	1.00	0.00	0.08	0.00	0.92	0.00	0.00	0.00	0.00	0.00
MC37	1.00	0.00	0.00	0.00	0.46	0.54	0.00	0.00	0.49	0.00
MC38	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.21	0.00
MC39	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.65	0.00
MC4	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC40	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC41	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC42	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC43	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC44	1.00	0.00	0.22	0.00	0.78	0.00	0.00	0.00	0.63	0.00
MC45	1.00	0.00	0.22	0.00	0.78	0.00	0.00	0.00	0.59	0.00
MC46	1.00	0.00	0.20	0.00	0.80	0.00	0.00	0.00	0.56	0.00
MC47	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC48	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC49	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC50	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC51	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC52	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.91	0.00
MC53	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC54	1.00	0.00	0.12	0.00	0.88	0.00	0.00	0.00	0.08	0.00
MC55	1.00	0.00	0.12	0.00	0.88	0.00	0.00	0.00	0.73	0.00
MC56	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.61	0.00
MC57	1.00	0.00	0.12	0.00	0.88	0.00	0.00	0.00	0.73	0.00
MC58	1.00	0.00	0.13	0.00	0.87	0.00	0.00	0.00	0.00	0.00
MC59	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC6	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.15	0.00
MC62	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC64	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC65	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC66	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC67	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC68	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC69	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27	0.00
MC7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC70	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC71	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC72	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC73	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC74	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.29	0.00
MC75	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC76	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC77	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.20	0.00
MC78	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC79	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC8	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC80	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC82	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC83	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC84	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.81	0.00
MC85	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC86	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.12	0.00
MC87	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC89	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC9	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC90	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC91	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.00
MC92	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC93	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC97	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.15	0.00
MC98	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.78	0.00
MC99	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MJ-C5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MJ-C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MJ-C7	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
MJ-C8	1.00	0.03	0.00	0.00	0.79	0.19	0.00	0.00	0.06	0.00

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Conduit Surcharge Summary
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	Hours Full			Hours Above Full	Hours Capacity
Conduit	Both Ends	Upstream	Dnstream	Normal Flow	Limited
C100	3.74	3.74	4.03	0.72	0.67
C106	1.10	1.10	2.73	0.46	0.45
C108	0.31	0.31	1.61	0.01	0.01
C110	1.91	1.91	2.58	0.01	0.01
C111	2.53	2.53	3.67	0.01	0.01
C113	1.92	1.92	2.53	0.01	0.01
C114	0.30	0.30	0.37	0.01	0.01
C115	0.01	0.01	0.27	0.01	0.01
C116	3.67	3.67	4.20	0.01	0.01
C118	4.35	4.35	5.29	0.01	0.01
C119_1	1.84	1.84	2.65	0.01	0.01
C119_2	4.28	4.32	5.51	0.65	0.58
C123	4.93	4.93	5.66	0.49	0.47
C124	4.60	4.60	4.73	0.71	0.69
C125	4.96	4.98	6.19	0.34	0.12
C126	6.98	7.00	7.37	0.54	0.31
C130	2.74	2.74	4.29	0.01	0.01
C145	0.01	0.58	0.01	0.85	0.01
C147	0.01	0.01	0.01	0.64	0.01

C150	0.19	0.57	0.20	0.82	0.19
C167	0.19	0.31	0.19	0.41	0.19
C185	0.12	0.12	0.22	0.01	0.03
C186	0.24	0.24	0.25	0.01	0.08
C187	0.26	0.26	0.26	0.32	0.18
C188	0.24	0.26	0.24	0.32	0.19
C194	0.03	0.03	0.33	0.01	0.01
C2	2.72	2.73	3.98	0.56	0.54
C200-	0.41	0.41	0.44	0.14	0.14
C206	0.08	0.08	0.10	0.01	0.01
C207	0.15	0.15	0.19	0.01	0.01
C211	0.01	0.01	14.95	0.01	0.01
C228	1.71	1.71	3.64	0.01	0.01
C230	1.04	1.04	1.05	0.01	0.01
C231	1.35	1.35	1.38	0.18	0.24
C232	1.12	1.12	1.23	0.01	0.01
C233	1.23	1.23	1.35	0.48	0.02
C235	0.01	0.01	0.15	0.01	0.01
C239	1.65	1.69	1.81	0.01	0.09
C240	0.76	0.76	1.41	0.01	0.01
C244	0.35	0.35	0.56	0.01	0.01
C248	0.38	0.46	0.38	0.55	0.38
C252	0.23	0.23	0.27	0.01	0.01
C253	0.19	0.29	0.19	0.37	0.19
C254	0.19	0.19	0.35	0.03	0.02
C255	0.29	0.29	0.35	0.01	0.01
C256	0.36	0.36	0.38	0.01	0.01
C257	0.17	0.17	0.19	0.01	0.01
C258	0.32	0.38	0.32	0.43	0.26
C259	0.25	0.25	0.25	0.01	0.01
C26	0.37	0.37	0.49	0.01	0.01
C260	0.29	0.71	0.29	0.48	0.05
C263	0.24	0.24	0.26	0.01	0.01
C27	0.48	0.50	0.48	0.52	0.48
C28	0.44	0.44	0.52	0.01	0.01
C281	0.65	0.70	0.65	0.48	0.42
C284	0.31	0.41	0.48	0.52	0.24
C285	0.25	0.26	0.38	0.01	0.09
C288	0.01	2.12	0.01	2.33	0.01
C3	2.43	2.43	3.70	0.01	0.01
C343	1.12	1.13	1.18	1.22	0.84

C344	1.31	1.31	1.51	0.36	0.39
C345	1.24	1.41	1.24	1.57	1.24
C346	0.01	0.49	0.01	0.63	0.01
C348	20.76	20.76	20.79	5.40	0.01
C349	0.29	0.29	20.89	0.01	0.01
C350	0.29	0.55	0.29	0.64	0.23
C4	0.01	0.01	2.44	0.01	0.01
C437	0.02	0.02	0.31	0.01	0.01
C48	0.34	0.34	0.43	0.01	0.01
C5	0.01	0.01	15.31	0.01	0.01
C50	0.56	0.56	0.78	0.01	0.01
C53	0.51	0.51	1.12	0.03	0.03
C54	0.71	0.71	1.10	0.27	0.27
C653	0.37	0.43	0.37	0.54	0.37
C655	0.37	0.37	0.38	0.29	0.28
C656	0.37	0.37	0.37	0.48	0.36
C658	0.37	0.45	0.37	0.56	0.37
C660	0.31	0.36	0.35	0.45	0.26
C662	0.01	0.01	2.06	4.68	0.01
C663	1.46	1.46	1.90	0.01	0.05
C664	1.25	1.35	1.26	1.46	1.06
C665	0.01	0.01	14.86	0.01	0.01
C666	0.01	0.40	0.01	0.47	0.01
C673	0.01	0.01	0.17	0.01	0.01
C674	1.22	1.22	2.30	2.30	1.17
C700	1.17	1.17	3.60	3.74	0.01
C701	0.01	0.45	0.01	0.59	0.01
C710	0.09	0.09	0.15	0.01	0.01
C711	0.17	0.17	2.15	0.01	0.01
C712	2.51	2.51	6.93	1.28	1.25
C713	2.21	2.22	2.40	0.01	0.01
C714	1.28	1.28	1.38	0.50	0.06
C715	0.32	0.62	0.32	1.47	0.32
C716	0.39	0.45	0.39	0.49	0.39
C717	0.39	0.39	0.41	0.21	0.22
C718	0.49	0.49	0.68	0.01	0.01
C751	0.01	0.01	1.78	0.01	0.01
C752	2.07	2.07	2.90	1.87	1.82
C753	0.55	1.26	0.56	1.54	0.52
C754	1.05	1.05	1.35	0.01	0.01
C755	0.75	0.75	1.30	0.01	0.01

C756	0.39	0.40	0.44	0.01	0.01
C757	0.39	0.39	0.39	0.37	0.37
C758	0.01	0.01	0.01	0.16	0.01
C760	0.01	0.01	0.02	0.01	0.01
C762	0.01	0.01	0.63	0.01	0.01
C763	0.01	0.01	20.19	0.01	0.01
C764	0.62	1.02	0.62	1.39	0.62
C765	2.40	2.40	2.46	0.01	0.08
C766	2.46	2.46	2.51	0.70	0.79
C767	0.42	0.47	0.42	0.57	0.42
C77	0.64	0.64	0.68	0.28	0.27
C80	0.56	0.57	0.64	0.38	0.36
C94	0.52	0.52	2.43	0.24	0.22
CB72	0.01	0.19	0.01	0.25	0.01
MC148	0.01	0.01	14.98	0.01	0.01
MC168	0.29	0.29	14.98	0.01	0.01
MC189	0.01	0.01	2.94	0.01	0.01
MC196	0.01	0.01	0.09	0.01	0.01
MC197	0.01	0.01	0.09	0.01	0.01
MC202	0.01	0.01	0.36	0.01	0.01
MC207	0.56	0.56	1.21	0.01	0.01
MC208	0.01	0.01	0.01	0.41	0.01
MC220	0.01	0.01	0.36	0.01	0.01
MC231	0.01	0.01	14.98	0.01	0.01
MC7	0.01	0.01	1.14	0.01	0.01
MJ-C5	0.01	0.49	0.01	0.01	0.01

Analysis begun on: Thu Sep 7 14:13:19 2023
Analysis ended on: Thu Sep 7 14:13:33 2023
Total elapsed time: 00:00:14

Appendix C

Proposed Condition Model with improvements Input & Output Data

5-Year Storm Event - Proposed Model

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.015)
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WARNING 03: negative offset ignored for Link C20
WARNING 03: negative offset ignored for Link C23
WARNING 03: negative offset ignored for Link C349
WARNING 03: negative offset ignored for Link C63
WARNING 03: negative offset ignored for Link C660
WARNING 03: negative offset ignored for Link C662
WARNING 04: minimum elevation drop used for Conduit C672
WARNING 03: negative offset ignored for Link C700
WARNING 08: elevation drop exceeds length for Conduit C709
WARNING 03: negative offset ignored for Link C751
WARNING 03: negative offset ignored for Link C94
WARNING 03: negative offset ignored for Link OR3
WARNING 10: crest elevation raised to downstream invert for regulator Link OL62

*************
Element Count
*************
Number of rain gages ...... 6
Number of subcatchments ... 300
Number of nodes ........... 453
Number of links ........... 508
Number of pollutants ...... 0
Number of land uses ....... 0


****************
Raingage Summary
****************
                                                  Data       Recording
Name                 Data Source                  Type       Interval
----------------------------------------------------------------------
100-yr_Chicago_4h_current 100-yr_Chicago_4h_current      INTENSITY   10 min.
100-yrChicago_4h_climate_change 100-yrChicago_4h_climate_change INTENSITY   10 min.
100yr-Climate_Change_Chicago_24h 100yr-Climate_Change_Chicago_24h INTENSITY    5 min.
100-yr-Historical-Chicago-24h 100-yr-Historical-Chicago-24h  INTENSITY    5 min.
5yr-Climate_Change_Chicago_24h 5yr-Climate_Change_Chicago_24h INTENSITY    5 min.
5yr-Historical_Chicago_24h 5yr-Historical_Chicago_24h     INTENSITY    5 min.
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****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
Rural_1	6.93	693.09	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF55
Rural_10	33.34	2222.61	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF46-
Rural_11	0.47	117.85	40.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ5
Rural_12	22.22	1481.37	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF45-
Rural_13	22.63	1508.50	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF44-
Rural_14	17.01	1133.79	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF42-
Rural_15	19.30	1286.64	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF47-
Rural_16	26.34	1756.25	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF43-
Rural_16-2_1	6.17	617.28	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF41-
Rural_16-2_2	7.41	740.63	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF40-
Rural_17	2.77	692.27	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF28-
Rural_17_1	2.85	711.70	40.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ7
Rural_17_2	15.18	1012.09	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF34-
Rural_17_4	13.48	898.39	7.00	0.5000	5yr-Climate_Change_Chicago_24h	OF36-
Rural_18	10.27	1027.27	0.00	0.5000	5yr-Climate_Change_Chicago_24h	OF35-
Rural_19	56.92	3794.74	0.00	0.5000	5yr-Climate_Change_Chicago_24h	OF37-
Rural_2	19.33	1932.61	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF56
Rural_20	24.28	2427.98	0.00	0.5000	5yr-Climate_Change_Chicago_24h	OF38-
Rural_21	97.14	6475.83	0.00	0.5000	5yr-Climate_Change_Chicago_24h	OF48-
Rural_22	42.10	2806.98	7.00	0.5000	5yr-Climate_Change_Chicago_24h	OF58
Rural_23	51.76	3450.73	16.00	0.5000	5yr-Climate_Change_Chicago_24h	OF60
Rural_24	7.67	1916.28	39.00	0.5000	5yr-Climate_Change_Chicago_24h	OF59
Rural_25	39.85	2656.49	12.00	0.5000	5yr-Climate_Change_Chicago_24h	OF58
Rural_26	32.24	2149.19	0.00	0.5000	5yr-Climate_Change_Chicago_24h	OF61
Rural_27	9.02	901.70	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF39-
Rural_29	17.03	1135.65	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF47-
Rural_3	7.28	727.85	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF57
Rural_4	27.11	1807.37	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF53
Rural_5	11.25	1124.69	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF51
Rural_6	13.81	1380.92	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF52
Rural_7	17.28	1152.22	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF49-
Rural_8	12.76	850.42	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF50
Rural_9	22.61	1507.37	40.00	0.5000	5yr-Climate_Change_Chicago_24h	OF54
S1	1.96	654.79	5.00	0.5000	5yr-Climate_Change_Chicago_24h	4396744795620

S10	1.60	534.10	35.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ156
S11	0.56	185.39	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4395014795520
S12	1.51	503.53	35.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ155
S13	1.08	359.39	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4393464795440
S14	0.35	117.21	35.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ153
S15	1.12	372.92	35.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ152
S16	1.34	448.20	35.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ154
S17_1	2.53	252.96	35.00	0.5000	5yr-Climate_Change_Chicago_24h	SCU2
S17_2	0.80	79.77	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4395024795240
S18	0.44	147.48	35.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ155
S19	0.51	168.40	25.00	0.5000	5yr-Climate_Change_Chicago_24h	4393464795440
S2	0.12	41.50	5.00	0.5000	5yr-Climate_Change_Chicago_24h	4395174795720
S20_1	1.63	542.93	35.00	0.5000	5yr-Climate_Change_Chicago_24h	SCU1
S20_2	0.94	312.40	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4393014795360
S21	0.33	111.01	25.00	0.5000	5yr-Climate_Change_Chicago_24h	J8
S22	0.41	137.61	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4392024795890
S23	0.07	24.13	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391884795900
S24	0.05	18.15	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391884795900
S25	0.06	18.42	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391504795920
S26	0.05	17.43	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391504795920
S27	0.33	109.02	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391304795930
S28	0.12	38.52	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391304795930
S29	0.25	83.87	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391014795950
S3	0.26	87.60	5.00	0.5000	5yr-Climate_Change_Chicago_24h	4394414795760
S30	0.06	19.13	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4390544795870
S31	0.06	18.83	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391194795830
S32	0.08	27.18	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391194795830
S33	0.36	119.35	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4391664795910
S4	0.44	148.28	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4396584795550
S5	1.59	530.12	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4396584795550
S6	0.90	301.00	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4395694795410
S7	0.91	302.89	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4394754795460
S8	0.86	285.21	25.00	0.5000	5yr-Climate_Change_Chicago_24h	4396134795480
S9	0.24	80.91	35.00	0.5000	5yr-Climate_Change_Chicago_24h	4395174795720
UC1	1.33	443.23	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ71
UC10	0.27	88.36	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ130
UC100	0.16	53.27	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF4-M
UC11	1.25	416.49	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ130
UC111	0.06	18.46	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ19
UC112	0.70	234.53	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ19
UC113	0.59	195.81	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ34

UC114	0.17	57.05	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ21
UC115	0.24	81.58	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ23
UC116	0.57	190.77	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ13
UC117	0.39	129.17	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ13
UC118	0.21	71.29	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ13
UC119	0.33	109.09	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ13
UC12	0.91	302.53	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MH2_S
UC120	1.43	475.37	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ135
UC121	0.29	96.14	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ26
UC122	0.30	100.59	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ93
UC123	0.15	51.62	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ87
UC124	0.24	80.00	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ74
UC125	0.30	30.34	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ25
UC126	0.08	26.84	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ114
UC127	0.40	134.31	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ120
UC128	0.03	8.82	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ114
UC129	0.04	14.37	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ103
UC13	1.12	372.27	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MH3_S
UC130	0.16	54.47	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ44
UC131	0.07	22.34	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ97
UC132	0.12	38.54	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ91
UC133	0.26	85.91	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ35
UC134	0.07	23.97	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ77
UC135	0.35	118.31	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ27
UC136	0.02	7.51	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ61
UC137	0.16	53.32	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ30
UC138	0.20	65.32	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ14
UC139	0.05	15.79	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ10
UC14	0.46	152.40	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ143
UC140	0.13	43.41	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ1
UC141	0.27	91.09	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ1
UC142	0.13	43.51	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ2
UC143	0.59	195.95	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ2
UC144	0.34	114.43	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ31
UC145	0.38	128.10	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ31
UC146	0.45	151.56	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ30
UC147	0.16	51.99	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ20
UC148	0.17	55.60	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ32
UC149	0.30	98.86	25.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ32
UC15	0.22	72.23	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MH8_S
UC150	0.63	210.22	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ27

UC151	0.23	78.08	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ57
UC152	0.15	48.86	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ3
UC153	0.48	159.93	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ3
UC154	0.65	217.20	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ3
UC155	0.19	62.55	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ45
UC156	0.54	181.16	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ25
UC157	0.46	152.01	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF31-M
UC159	0.12	38.43	55.00	0.5000	5yr-Climate_Change_Chicago_24h	CBMH5_ON
UC16	0.50	166.28	55.00	0.5000	5yr-Climate_Change_Chicago_24h	CB15
UC162	0.37	122.53	55.00	0.5000	5yr-Climate_Change_Chicago_24h	J127
UC163	0.08	25.95	55.00	0.5000	5yr-Climate_Change_Chicago_24h	CB23
UC164	0.35	116.48	55.00	0.5000	5yr-Climate_Change_Chicago_24h	CB17
UC167	0.61	204.17	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF6-
UC168	0.16	51.90	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ63
UC17	0.82	272.45	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ125
UC173	2.03	677.63	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ152
UC174	1.54	514.47	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ148
UC175	0.11	36.39	55.00	0.5000	5yr-Climate_Change_Chicago_24h	J38
UC176	0.22	74.81	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ134
UC177	0.82	272.09	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ148
UC178	0.79	263.61	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF9-M
UC179	0.43	141.99	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF30-M
UC18	0.68	227.09	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ130
UC180	3.20	1067.16	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ100
UC181	0.76	254.77	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ100
UC182	1.10	367.89	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ70
UC183	2.34	778.67	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ122
UC184	0.11	35.65	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ99
UC185	0.11	35.03	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ107
UC186	0.05	15.93	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ104
UC187	0.14	45.38	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ104
UC188	1.25	417.00	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ129
UC189	1.78	592.86	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ116
UC19	0.74	247.66	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ108
UC190	0.38	127.82	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ129
UC191	0.09	29.27	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ132
UC192	2.38	792.09	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ137
UC193	0.63	209.65	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ147
UC194_1	0.59	197.43	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MH21_S
UC194_3	0.66	220.10	55.00	0.5000	5yr-Climate_Change_Chicago_24h	J9
UC194_4	0.46	153.93	45.00	0.5000	5yr-Climate_Change_Chicago_24h	J10

UC195	1.13	377.67	45.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ145
UC196	0.60	200.27	55.00	0.5000	5yr-Climate_Change_Chicago_24h	Gill_RD_Pond
UC197	0.77	256.83	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ124
UC198_1	0.42	139.93	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ145
UC198_2	0.35	117.43	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ144
UC199	0.23	75.93	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF26-M
UC2	0.69	228.67	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ84
UC20	0.91	303.91	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ101
UC200	0.40	132.98	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ119
UC201	1.05	349.75	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MH34_S
UC202	0.87	290.43	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ139
UC203	0.66	221.28	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ128
UC204	0.79	263.60	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ128
UC205	0.39	130.87	5.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ112
UC206	2.25	751.40	5.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ95
UC207	0.96	320.57	5.00	0.5000	5yr-Climate_Change_Chicago_24h	J1
UC208	0.57	191.63	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ110
UC209	0.38	125.76	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ112
UC21	0.42	139.13	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ103
UC210	1.55	516.08	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ92
UC211	2.79	930.15	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ67
UC212	2.81	937.22	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ22
UC213	4.46	1486.35	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ22
UC214	0.61	203.69	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ7
UC215	1.27	423.54	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ15
UC216	1.99	663.06	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ36
UC217	1.96	652.18	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ36
UC218	1.20	400.42	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ24
UC219	0.14	46.27	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ122
UC22	0.39	130.02	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ89
UC220	0.03	9.20	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ131
UC221	0.13	42.97	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ136
UC222	0.31	104.56	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ131
UC223	0.26	87.52	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ135
UC224	0.37	123.74	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ151
UC225	0.73	243.33	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MH8_S
UC229	0.02	7.54	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ64
UC23	0.33	111.21	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ86
UC24	0.34	114.53	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ80
UC25	0.31	104.28	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ65
UC26	0.18	58.99	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ76

UC27	0.15	50.82	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ86
UC28	0.22	72.77	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ69
UC29	0.26	85.34	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ69
UC3	0.16	54.62	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ102
UC30	0.05	17.37	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ66
UC300	1.52	505.83	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF28-
UC301	4.36	1453.53	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF23-
UC302	0.47	158.17	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF26-M
UC303	0.55	184.73	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF27-1
UC304	2.14	712.20	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF21-
UC305	2.14	714.30	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF10-
UC306	0.69	229.93	5.00	0.5000	5yr-Climate_Change_Chicago_24h	J2
UC307	0.50	165.17	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF27-1
UC308	2.74	245.84	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ12
UC309	0.46	154.37	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF17-
UC31	0.33	111.10	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ55
UC310	0.71	238.23	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF19-
UC311	4.49	1495.23	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF15-
UC312	1.66	554.30	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF15-
UC313_2	2.65	884.63	5.00	0.5000	5yr-Climate_Change_Chicago_24h	OF13-1
UC313_3	1.89	628.77	5.00	0.5000	5yr-Climate_Change_Chicago_24h	OF14-
UC313_4	0.83	276.00	35.00	0.5000	5yr-Climate_Change_Chicago_24h	UC313_2
UC314	0.23	77.97	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF18-M
UC315	0.94	313.53	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF5-M
UC316	0.64	214.80	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF5-M
UC317	0.59	197.20	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF4-M
UC318	0.63	210.60	20.00	0.5000	5yr-Climate_Change_Chicago_24h	OF3-
UC319	2.35	781.77	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF27-M
UC32	0.12	38.49	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ48
UC33	0.80	266.66	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ48
UC34	0.62	205.09	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ55
UC35	0.06	18.45	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ69
UC36	0.05	16.27	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ60
UC37	0.10	32.31	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ55
UC38	0.41	137.29	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ37
UC39	0.14	47.24	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ51
UC4	0.40	133.14	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ102
UC40	0.09	30.17	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ61
UC41	0.05	15.78	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ73
UC42	0.09	30.13	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ73
UC43	0.07	24.64	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ83

UC44	0.06	21.00	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ83
UC45	0.17	56.40	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ89
UC46	0.13	42.55	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ108
UC47	0.15	49.57	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ118
UC48	0.19	63.36	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ118
UC49	0.42	138.36	55.00	0.5000	5yr-Climate_Change_Chicago_24h	CB20
UC5	0.51	169.28	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ103
UC50	0.29	95.42	55.00	0.5000	5yr-Climate_Change_Chicago_24h	CB19
UC51	0.63	211.64	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ121
UC52	0.57	189.36	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ131
UC53	0.79	264.40	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ105
UC54	0.77	256.33	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ93
UC55	0.70	233.10	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ87
UC56	0.41	135.07	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ82
UC57	0.35	117.21	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ72
UC58	0.29	97.61	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ64
UC59	0.23	76.57	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ61
UC6	0.22	71.89	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ102
UC60	0.16	52.37	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ61
UC61	0.36	120.37	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ35
UC62	0.69	228.71	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ26
UC63	0.08	26.32	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ18
UC64	0.05	15.69	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ53
UC65	0.14	47.86	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ72
UC66	0.07	23.20	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ79
UC67	0.00	1.18	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ79
UC68	0.24	78.40	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ74
UC69	0.04	11.73	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ78
UC7	0.30	99.82	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ113
UC70	0.05	18.24	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ75
UC71	0.80	209.88	5.00	0.5000	5yr-Climate_Change_Chicago_24h	Rice_Pond
UC72	0.06	18.71	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ81
UC73	0.36	121.41	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ90
UC74	15.94	4116.06	5.00	0.5000	5yr-Climate_Change_Chicago_24h	OF24-
UC75	0.21	69.77	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ93
UC76	0.32	105.90	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ81
UC77	0.27	89.05	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ59
UC78	0.39	130.61	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ42
UC79	0.06	18.52	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ117
UC8	0.45	148.58	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ120
UC80	0.03	9.53	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ64

UC81	0.25	81.93	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ115
UC82	0.45	151.11	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ90
UC83	0.19	61.70	55.00	0.5000	5yr-Climate_Change_Chicago_24h	OF5-M
UC84	1.13	376.24	20.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ9
UC85	0.42	138.40	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ74
UC86	0.33	109.61	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ59
UC87	0.15	48.47	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ56
UC88	0.16	53.96	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ52
UC89	0.36	119.67	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ52
UC9	0.47	158.00	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ127
UC90	0.14	47.36	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ58
UC91	0.04	14.63	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ47
UC92	0.08	27.04	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ47
UC93	0.21	69.53	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ38
UC94	0.17	55.62	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ38
UC95	0.10	31.80	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ46
UC96	0.23	75.23	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ29
UC97	0.14	46.20	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ29
UC98	0.22	73.89	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ47
UC99	0.33	111.47	55.00	0.5000	5yr-Climate_Change_Chicago_24h	MJ17

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LID Control Summary
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Subcatchment	LID Control	No. of Units	Unit Area	Unit Width	% Area Covered	% Imperv Treated	% Perv Treated
UC120	Bioretention_Facility	1	200.00	5.00	1.40	90.00	90.00
UC122	Bioretention_Facility	1	100.00	5.00	3.31	90.00	90.00
UC127	Bioretention_Facility	1	300.00	5.00	7.45	90.00	90.00
UC129	Bioretention_Facility	1	100.00	5.00	23.20	90.00	90.00
UC131	Bioretention_Facility	1	100.00	5.00	14.92	90.00	90.00
UC132	Bioretention_Facility	1	150.00	5.00	12.97	90.00	90.00
UC136	Bioretention_Facility	1	50.00	5.00	22.19	90.00	90.00
UC3	Bioretention_Facility	1	60.00	5.00	3.66	90.00	90.00
UC4	Bioretention_Facility	1	160.00	5.00	4.01	90.00	90.00
UC40	Bioretention_Facility	1	80.00	5.00	8.84	90.00	90.00
UC53	Bioretention_Facility	1	200.00	5.00	2.52	90.00	90.00
UC59	Bioretention_Facility	1	200.00	5.00	8.71	90.00	90.00
UC6	Bioretention_Facility	1	100.00	5.00	4.64	90.00	90.00

UC60	Bioretention_Facility	1	120.00	5.00	7.64	90.00	90.00
UC7	Bioretention_Facility	1	120.00	5.00	4.01	90.00	90.00
UC77	Bioretention_Facility	1	100.00	5.00	3.74	90.00	90.00
UC8	Bioretention_Facility	1	300.00	5.00	6.73	90.00	90.00
UC82	Bioretention_Facility	1	140.00	5.00	3.09	90.00	90.00
UC89	Bioretention_Facility	1	200.00	5.00	5.57	90.00	90.00
UC90	Bioretention_Facility	1	120.00	5.00	8.45	90.00	90.00
UC96	Bioretention_Facility	1	160.00	5.00	7.09	90.00	90.00
UC97	Bioretention_Facility	1	60.00	5.00	4.33	90.00	90.00

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
4390544795870	JUNCTION	183.56	2.00	0.0	
4390824795850	JUNCTION	183.34	2.00	0.0	
4391014795950	JUNCTION	183.74	2.00	0.0	
4391194795830	JUNCTION	183.55	2.00	0.0	
4391304795930	JUNCTION	184.03	2.00	0.0	
4391504795920	JUNCTION	184.15	2.00	0.0	
4391544795810	JUNCTION	182.95	2.00	0.0	
4391664795910	JUNCTION	184.06	2.00	0.0	
4391884795900	JUNCTION	184.13	2.00	0.0	
4392024795890	JUNCTION	184.09	2.00	0.0	
4393014795360	JUNCTION	185.94	2.00	0.0	
4393464795440	JUNCTION	186.11	2.00	0.0	
4394414795760	JUNCTION	185.65	2.00	0.0	
4394754795460	JUNCTION	186.23	2.00	0.0	
4394784795740	JUNCTION	184.70	1.10	0.0	
4395014795520	JUNCTION	185.67	2.00	0.0	
4395024795240	JUNCTION	186.21	2.00	0.0	
4395174795720	JUNCTION	186.33	2.00	0.0	
4395694795410	JUNCTION	187.03	2.00	0.0	
4396134795480	JUNCTION	186.27	2.00	0.0	
4396584795550	JUNCTION	187.03	2.00	0.0	
4396744795620	JUNCTION	187.11	2.00	0.0	
CB15	JUNCTION	181.70	1.40	0.0	
CB16	JUNCTION	181.95	1.58	0.0	

CB17	JUNCTION	180.27	2.86	0.0
CB18	JUNCTION	181.40	1.68	0.0
CB19	JUNCTION	181.60	1.50	0.0
CB20	JUNCTION	181.34	1.76	0.0
CB21	JUNCTION	180.51	2.49	0.0
CB22	JUNCTION	181.20	2.30	0.0
CB23	JUNCTION	181.45	1.85	0.0
CB26	JUNCTION	179.34	3.28	0.0
CB27	JUNCTION	182.57	1.72	0.0
CB29	JUNCTION	185.26	0.85	0.0
CB30	JUNCTION	185.15	0.91	0.0
CB30_1	JUNCTION	183.93	1.57	0.0
CB31	JUNCTION	183.49	1.13	0.0
CB32	JUNCTION	183.42	1.22	0.0
CB33	JUNCTION	183.34	1.39	0.0
CB34	JUNCTION	184.40	0.74	0.0
CB35	JUNCTION	184.20	0.95	0.0
CB41	JUNCTION	181.77	0.85	0.0
CB42	JUNCTION	181.15	1.50	0.0
CB-58	JUNCTION	180.43	2.10	0.0
CBMH_1	JUNCTION	181.53	1.97	0.0
CBMH_40	JUNCTION	182.75	2.25	0.0
CBMH_41	JUNCTION	182.52	1.98	0.0
CBMH_42	JUNCTION	182.82	1.68	0.0
CBMH_44	JUNCTION	182.43	1.87	0.0
CBMH_46	JUNCTION	182.00	2.03	0.0
CBMH_62	JUNCTION	182.63	1.56	0.0
CBMH_9	JUNCTION	183.50	3.00	0.0
CBMH1	JUNCTION	182.55	1.45	0.0
CBMH1_ON	JUNCTION	184.86	1.26	0.0
CBMH10_Main	JUNCTION	179.41	2.02	0.0
CBMH2	JUNCTION	180.73	3.49	0.0
CBMH2_ON	JUNCTION	184.54	2.00	0.0
CBMH3_ON	JUNCTION	184.25	2.33	0.0
CBMH4_ON	JUNCTION	183.99	2.41	0.0
CBMH5	JUNCTION	179.80	2.75	0.0
CBMH5_ON	JUNCTION	184.05	2.30	0.0
CBMH6_ON	JUNCTION	183.89	2.26	0.0
CBMH7	JUNCTION	182.38	1.87	0.0
CBMH7_ON	JUNCTION	183.71	1.58	0.0
CBMH8_ON	JUNCTION	183.26	1.51	0.0

CBMH9_ON	JUNCTION	182.74	1.61	0.0
DCB72	JUNCTION	180.43	1.45	0.0
DICBMH42	JUNCTION	176.65	2.45	0.0
J1	JUNCTION	183.15	2.00	0.0
J10	JUNCTION	182.53	2.00	0.0
J101	JUNCTION	180.77	1.30	0.0
J102	JUNCTION	180.00	2.04	0.0
J105	JUNCTION	183.98	1.52	0.0
J106	JUNCTION	183.62	1.13	0.0
J110	JUNCTION	180.82	1.39	0.0
J113	JUNCTION	180.92	1.25	0.0
J115	JUNCTION	183.07	1.93	0.0
J116	JUNCTION	176.45	1.41	0.0
J12	JUNCTION	183.32	3.08	0.0
J125	JUNCTION	179.15	3.73	0.0
J127	JUNCTION	180.71	2.36	0.0
J128	JUNCTION	180.92	2.45	0.0
J15	JUNCTION	180.71	3.09	0.0
J2	JUNCTION	182.87	2.00	0.0
J20	JUNCTION	179.51	3.24	0.0
J24	JUNCTION	177.76	4.94	0.0
J3	JUNCTION	181.58	2.00	0.0
J30	JUNCTION	186.43	2.77	0.0
J31	JUNCTION	185.91	3.09	0.0
J34	JUNCTION	181.75	1.62	0.0
J35	JUNCTION	181.98	1.23	0.0
J36	JUNCTION	179.96	3.79	0.0
J38	JUNCTION	180.00	3.26	0.0
J4	JUNCTION	185.20	2.55	0.0
J42	JUNCTION	179.01	3.19	0.0
J43	JUNCTION	178.80	3.55	0.0
J47	JUNCTION	179.99	2.53	0.0
J48	JUNCTION	180.60	3.90	0.0
J49	JUNCTION	180.92	2.12	0.0
J5	JUNCTION	184.85	3.65	0.0
J50	JUNCTION	178.47	4.13	0.0
J52	JUNCTION	178.68	3.32	0.0
J55	JUNCTION	178.50	3.72	0.0
J6	JUNCTION	181.23	2.00	0.0
J62	JUNCTION	178.38	4.00	0.0
J66	JUNCTION	176.80	1.21	0.0

J67	JUNCTION	176.71	1.02	0.0
J7	JUNCTION	182.39	2.00	0.0
J70	JUNCTION	175.92	1.45	0.0
J78	JUNCTION	0.00	0.30	0.0
J8	JUNCTION	184.40	1.77	0.0
J83	JUNCTION	0.00	0.30	0.0
J9	JUNCTION	182.72	2.00	0.0
J91	JUNCTION	178.37	4.55	0.0
J93	JUNCTION	182.16	0.74	0.0
J95	JUNCTION	182.38	0.64	0.0
J98	JUNCTION	181.18	0.86	0.0
MH_1	JUNCTION	181.24	2.76	0.0
MH_10	JUNCTION	183.26	3.24	0.0
MH_11	JUNCTION	183.13	3.33	0.0
MH_12	JUNCTION	185.24	2.02	0.0
MH_13	JUNCTION	184.10	2.77	0.0
MH_14	JUNCTION	183.75	2.84	0.0
MH_15	JUNCTION	182.74	3.11	0.0
MH_16	JUNCTION	182.59	3.03	0.0
MH_17	JUNCTION	182.15	2.72	0.0
MH_18	JUNCTION	184.53	2.65	0.0
MH_19	JUNCTION	185.17	2.24	0.0
MH_2	JUNCTION	180.60	1.90	0.0
MH_20	JUNCTION	184.93	2.01	0.0
MH_21	JUNCTION	184.53	2.04	0.0
MH_22	JUNCTION	183.99	2.43	0.0
MH_23	JUNCTION	183.28	3.06	0.0
MH_24	JUNCTION	184.50	1.90	0.0
MH_25	JUNCTION	184.00	2.94	0.0
MH_26	JUNCTION	183.28	2.54	0.0
MH_27	JUNCTION	183.07	2.54	0.0
MH_29	JUNCTION	183.90	1.74	0.0
MH_30	JUNCTION	183.08	2.19	0.0
MH_34	JUNCTION	183.13	2.94	0.0
MH_35	JUNCTION	182.73	2.96	0.0
MH_36	JUNCTION	182.63	2.91	0.0
MH_37	JUNCTION	182.25	2.93	0.0
MH_38	JUNCTION	182.02	2.87	0.0
MH_39	JUNCTION	181.68	2.80	0.0
MH_43	JUNCTION	182.56	1.74	0.0
MH_45	JUNCTION	182.14	1.89	0.0

MH_47	JUNCTION	181.56	2.77	0.0
MH_56	JUNCTION	183.17	0.83	0.0
MH_57	JUNCTION	182.84	1.26	0.0
MH_58	JUNCTION	182.68	1.46	0.0
MH_59	JUNCTION	183.44	1.06	0.0
MH_61	JUNCTION	183.17	1.33	0.0
MH_63	JUNCTION	182.46	1.79	0.0
MH_64	JUNCTION	182.20	2.23	0.0
MH_65	JUNCTION	181.87	2.45	0.0
MH_66	JUNCTION	181.81	2.42	0.0
MH_67	JUNCTION	181.33	2.72	0.0
MH_68	JUNCTION	181.12	2.23	0.0
MH_69	JUNCTION	180.26	3.94	0.0
MH_70	JUNCTION	179.67	2.41	0.0
MH1	JUNCTION	181.11	2.89	0.0
MH1_Main	JUNCTION	183.85	1.77	0.0
MH10	JUNCTION	179.50	3.65	0.0
MH10__S	JUNCTION	183.15	2.00	0.0
MH10_Main	JUNCTION	176.78	2.27	0.0
MH11	JUNCTION	179.30	3.47	0.0
MH11__S	JUNCTION	182.77	2.00	0.0
MH11_Main	JUNCTION	176.34	2.32	0.0
MH12	JUNCTION	181.20	1.87	0.0
MH13	JUNCTION	178.80	4.45	0.0
MH13_Main	JUNCTION	181.26	1.68	0.0
MH13_Main_	JUNCTION	180.75	1.93	0.0
MH14	JUNCTION	178.35	5.60	0.0
MH14_Main	JUNCTION	180.55	2.15	0.0
MH15	JUNCTION	178.20	5.71	0.0
MH15_Main	JUNCTION	180.49	2.55	0.0
MH16	JUNCTION	178.00	5.20	0.0
MH2	JUNCTION	181.00	2.95	0.0
MH2_Main	JUNCTION	183.35	1.52	0.0
MH2_S	JUNCTION	183.95	2.00	0.0
MH21	JUNCTION	181.12	1.98	0.0
MH21_S	JUNCTION	182.80	2.00	0.0
MH22	JUNCTION	180.69	2.21	0.0
MH23	JUNCTION	180.76	2.04	0.0
MH24	JUNCTION	180.59	2.18	0.0
MH25	JUNCTION	180.10	2.85	0.0
MH25-1	JUNCTION	180.26	2.69	0.0

MH26	JUNCTION	179.76	3.09	0.0
MH3	JUNCTION	180.92	3.19	0.0
MH3_Main	JUNCTION	182.82	2.67	0.0
MH3_S	JUNCTION	184.11	2.00	0.0
MH30	JUNCTION	179.43	2.82	0.0
MH31	JUNCTION	179.33	3.10	0.0
MH32	JUNCTION	179.21	2.82	0.0
MH33	JUNCTION	179.13	2.90	0.0
MH34	JUNCTION	179.06	2.06	0.0
MH34_S	JUNCTION	181.48	2.00	0.0
MH35	JUNCTION	178.95	2.88	0.0
MH36	JUNCTION	178.83	3.13	0.0
MH36_S	JUNCTION	181.97	2.00	0.0
MH37	JUNCTION	179.80	2.54	0.0
MH37_S	JUNCTION	182.34	2.00	0.0
MH38	JUNCTION	179.55	2.72	0.0
MH39	JUNCTION	179.41	2.76	0.0
MH4	JUNCTION	180.70	3.46	0.0
MH4_Main	JUNCTION	181.66	2.60	0.0
MH40	JUNCTION	178.83	3.25	0.0
MH41	JUNCTION	178.68	3.18	0.0
MH41_S	JUNCTION	181.86	2.00	0.0
MH42	JUNCTION	177.44	2.00	0.0
MH43	JUNCTION	177.28	4.82	0.0
MH5	JUNCTION	182.45	2.55	0.0
MH5_Main	JUNCTION	180.75	2.08	0.0
MH6	JUNCTION	182.32	2.68	0.0
MH6_Main	JUNCTION	180.24	3.03	0.0
MH7	JUNCTION	182.10	1.90	0.0
MH7_Main	JUNCTION	180.25	1.77	0.0
MH8	JUNCTION	180.51	3.45	0.0
MH8_Main	JUNCTION	177.56	1.91	0.0
MH8_S	JUNCTION	183.96	2.00	0.0
MH9	JUNCTION	180.27	3.46	0.0
MH9__S	JUNCTION	183.22	2.00	0.0
MH9_Main	JUNCTION	177.61	1.93	0.0
MJ_	JUNCTION	182.63	2.00	0.0
MJ1	JUNCTION	177.47	2.00	0.0
MJ10	JUNCTION	183.50	2.00	0.0
MJ100	JUNCTION	182.26	2.00	0.0
MJ101	JUNCTION	183.69	2.00	0.0

MJ102	JUNCTION	182.86	2.00	0.0
MJ103	JUNCTION	183.01	2.00	0.0
MJ104	JUNCTION	184.20	2.00	0.0
MJ105	JUNCTION	184.47	2.00	0.0
MJ106	JUNCTION	183.57	2.00	0.0
MJ107	JUNCTION	184.16	2.00	0.0
MJ108	JUNCTION	185.68	2.00	0.0
MJ109	JUNCTION	184.90	2.00	0.0
MJ11	JUNCTION	178.72	2.00	0.0
MJ110	JUNCTION	182.03	2.00	0.0
MJ111	JUNCTION	182.56	2.00	0.0
MJ112	JUNCTION	180.63	2.00	0.0
MJ113	JUNCTION	184.24	2.00	0.0
MJ114	JUNCTION	184.53	2.00	0.0
MJ115	JUNCTION	185.42	2.00	0.0
MJ116	JUNCTION	181.97	2.00	0.0
MJ117	JUNCTION	185.54	2.00	0.0
MJ118	JUNCTION	184.71	2.00	0.0
MJ119	JUNCTION	180.21	2.00	0.0
MJ12	JUNCTION	179.00	2.00	0.0
MJ120	JUNCTION	183.93	2.00	0.0
MJ121	JUNCTION	186.66	2.00	0.0
MJ122	JUNCTION	184.25	2.00	0.0
MJ123	JUNCTION	187.14	2.00	0.0
MJ124	JUNCTION	180.38	2.00	0.0
MJ125	JUNCTION	186.11	2.00	0.0
MJ126	JUNCTION	185.15	2.03	0.0
MJ127	JUNCTION	185.86	2.00	0.0
MJ128	JUNCTION	182.09	2.00	0.0
MJ129	JUNCTION	181.77	2.00	0.0
MJ13	JUNCTION	178.60	2.00	0.0
MJ130	JUNCTION	186.07	2.00	0.0
MJ131	JUNCTION	184.25	2.00	0.0
MJ132	JUNCTION	181.74	2.00	0.0
MJ133	JUNCTION	186.56	2.00	0.0
MJ134	JUNCTION	181.39	2.00	0.0
MJ135	JUNCTION	183.25	2.00	0.0
MJ136	JUNCTION	183.36	2.00	0.0
MJ137	JUNCTION	182.43	2.00	0.0
MJ138	JUNCTION	187.83	2.00	0.0
MJ139	JUNCTION	181.93	2.00	0.0

MJ14	JUNCTION	181.49	2.00	0.0
MJ140	JUNCTION	182.17	2.00	0.0
MJ142	JUNCTION	182.62	2.00	0.0
MJ143	JUNCTION	184.16	2.00	0.0
MJ144	JUNCTION	182.85	2.00	0.0
MJ145	JUNCTION	182.53	2.00	0.0
MJ146	JUNCTION	182.36	2.00	0.0
MJ147	JUNCTION	183.01	2.00	0.0
MJ148	JUNCTION	183.01	2.00	0.0
MJ149	JUNCTION	184.00	2.00	0.0
MJ15	JUNCTION	188.53	2.00	0.0
MJ150	JUNCTION	184.44	2.00	0.0
MJ151	JUNCTION	183.38	2.00	0.0
MJ152	JUNCTION	183.70	2.00	0.0
MJ153	JUNCTION	184.32	2.00	0.0
MJ154	JUNCTION	184.48	2.00	0.0
MJ155	JUNCTION	185.18	2.00	0.0
MJ156	JUNCTION	185.85	2.00	0.0
MJ158	JUNCTION	183.48	2.00	0.0
MJ16	JUNCTION	178.64	2.00	0.0
MJ17	JUNCTION	181.83	2.00	0.0
MJ18	JUNCTION	183.36	2.00	0.0
MJ19	JUNCTION	180.99	2.00	0.0
MJ2	JUNCTION	177.75	2.00	0.0
MJ20	JUNCTION	183.28	2.00	0.0
MJ21	JUNCTION	178.93	2.00	0.0
MJ22	JUNCTION	186.16	2.00	0.0
MJ23	JUNCTION	179.26	2.00	0.0
MJ24	JUNCTION	181.81	2.00	0.0
MJ25	JUNCTION	183.46	2.00	0.0
MJ26	JUNCTION	182.88	2.00	0.0
MJ27	JUNCTION	179.82	2.00	0.0
MJ28	JUNCTION	183.09	2.00	0.0
MJ29	JUNCTION	181.04	2.00	0.0
MJ3	JUNCTION	177.39	2.00	0.0
MJ30	JUNCTION	181.35	2.00	0.0
MJ31	JUNCTION	181.07	2.00	0.0
MJ32	JUNCTION	181.94	2.00	0.0
MJ33	JUNCTION	181.69	2.00	0.0
MJ34	JUNCTION	179.69	2.00	0.0
MJ35	JUNCTION	180.16	2.00	0.0

MJ36	JUNCTION	182.67	2.00	0.0
MJ37	JUNCTION	178.64	2.00	0.0
MJ38	JUNCTION	181.67	2.00	0.0
MJ39	JUNCTION	183.95	2.00	0.0
MJ4	JUNCTION	179.70	2.00	0.0
MJ40	JUNCTION	182.92	2.00	0.0
MJ41	JUNCTION	183.49	2.00	0.0
MJ42	JUNCTION	180.66	2.00	0.0
MJ43	JUNCTION	186.65	2.00	0.0
MJ44	JUNCTION	183.40	2.00	0.0
MJ45	JUNCTION	184.79	2.00	0.0
MJ46	JUNCTION	181.56	2.00	0.0
MJ47	JUNCTION	182.83	2.00	0.0
MJ48	JUNCTION	176.45	2.00	0.0
MJ49	JUNCTION	182.90	2.00	0.0
MJ5	JUNCTION	183.63	2.00	0.0
MJ50	JUNCTION	182.60	2.00	0.0
MJ51	JUNCTION	181.03	2.00	0.0
MJ52	JUNCTION	182.59	2.00	0.0
MJ53	JUNCTION	182.25	2.00	0.0
MJ54	JUNCTION	182.45	2.00	0.0
MJ55	JUNCTION	178.53	2.00	0.0
MJ56	JUNCTION	182.92	2.00	0.0
MJ57	JUNCTION	178.83	2.00	0.0
MJ58	JUNCTION	182.42	2.00	0.0
MJ59	JUNCTION	181.95	2.00	0.0
MJ60	JUNCTION	180.01	2.00	0.0
MJ61	JUNCTION	180.74	2.00	0.0
MJ62	JUNCTION	183.87	2.00	0.0
MJ63	JUNCTION	182.23	2.00	0.0
MJ64	JUNCTION	182.17	2.00	0.0
MJ65	JUNCTION	182.48	2.00	0.0
MJ66	JUNCTION	180.29	2.00	0.0
MJ67	JUNCTION	185.99	2.00	0.0
MJ68	JUNCTION	184.22	2.00	0.0
MJ69	JUNCTION	182.30	2.00	0.0
MJ7	JUNCTION	186.59	2.00	0.0
MJ70	JUNCTION	183.26	2.00	0.0
MJ71	JUNCTION	179.00	2.00	0.0
MJ72	JUNCTION	182.44	2.00	0.0
MJ73	JUNCTION	182.35	2.00	0.0

MJ74	JUNCTION	182.65	2.00	0.0
MJ75	JUNCTION	182.97	2.00	0.0
MJ76	JUNCTION	183.74	2.00	0.0
MJ77	JUNCTION	182.36	2.00	0.0
MJ78	JUNCTION	183.13	2.00	0.0
MJ79	JUNCTION	182.65	2.02	0.0
MJ8	JUNCTION	189.00	2.00	0.0
MJ80	JUNCTION	182.72	2.00	0.0
MJ81	JUNCTION	183.15	2.00	0.0
MJ82	JUNCTION	182.69	2.00	0.0
MJ83	JUNCTION	182.48	2.00	0.0
MJ84	JUNCTION	185.65	2.00	0.0
MJ85	JUNCTION	183.89	2.00	0.0
MJ86	JUNCTION	184.35	2.00	0.0
MJ87	JUNCTION	183.32	2.00	0.0
MJ88	JUNCTION	183.05	2.00	0.0
MJ89	JUNCTION	182.76	2.00	0.0
MJ9	JUNCTION	178.63	2.00	0.0
MJ90	JUNCTION	181.67	2.00	0.0
MJ91	JUNCTION	184.14	2.00	0.0
MJ92	JUNCTION	185.97	2.00	0.0
MJ93	JUNCTION	184.97	2.00	0.0
MJ94	JUNCTION	184.52	2.00	0.0
MJ95	JUNCTION	181.16	2.00	0.0
MJ96	JUNCTION	182.91	2.00	0.0
MJ97	JUNCTION	182.44	2.00	0.0
MJ98	JUNCTION	183.37	2.00	0.0
MJ99	JUNCTION	185.38	2.00	0.0
OGS-	JUNCTION	180.49	1.51	0.0
RICE_POND_OUTLET	JUNCTION	180.82	1.22	0.0
OF1	OUTFALL	184.20	0.80	0.0
OF10-	OUTFALL	0.00	0.00	0.0
OF11-M	OUTFALL	183.10	1.10	0.0
OF12-	OUTFALL	179.15	0.68	0.0
OF13-1	OUTFALL	180.31	0.45	0.0
OF13-2	OUTFALL	180.31	1.10	0.0
OF14-	OUTFALL	179.55	0.53	0.0
OF15-	OUTFALL	177.00	0.00	0.0
OF16-	OUTFALL	177.00	0.45	0.0
OF17-	OUTFALL	177.80	0.82	0.0
OF18-M	OUTFALL	179.15	0.00	0.0

OF19-	OUTFALL	178.15	0.82	0.0
OF1-M	OUTFALL	175.00	1.00	0.0
OF20-	OUTFALL	178.00	0.45	0.0
OF21-	OUTFALL	179.15	0.00	0.0
OF22_M	OUTFALL	181.25	1.10	0.0
OF23-	OUTFALL	0.00	0.00	0.0
OF24-	OUTFALL	177.26	0.82	0.0
OF25-	OUTFALL	177.59	0.45	0.0
OF26-M	OUTFALL	178.53	1.00	0.0
OF27-1	OUTFALL	177.18	0.82	0.0
OF27-M	OUTFALL	178.86	0.50	0.0
OF28-	OUTFALL	0.00	0.00	0.0
OF29-	OUTFALL	178.63	0.30	0.0
OF2-M	OUTFALL	177.10	1.10	0.0
OF2-M-	OUTFALL	177.10	1.10	0.0
OF3-	OUTFALL	176.00	0.45	0.0
OF30-M	OUTFALL	179.83	0.48	0.0
OF31-M	OUTFALL	181.38	1.10	0.0
OF32-M	OUTFALL	184.92	1.10	0.0
OF33-	OUTFALL	177.03	0.82	0.0
OF34-	OUTFALL	0.00	0.00	0.0
OF35-	OUTFALL	0.00	0.00	0.0
OF36-	OUTFALL	0.00	0.00	0.0
OF37-	OUTFALL	0.00	0.00	0.0
OF38-	OUTFALL	0.00	0.00	0.0
OF39-	OUTFALL	0.00	0.00	0.0
OF3-M	OUTFALL	177.73	0.48	0.0
OF40-	OUTFALL	0.00	0.00	0.0
OF41-	OUTFALL	0.00	0.00	0.0
OF42-	OUTFALL	0.00	0.00	0.0
OF43-	OUTFALL	0.00	0.00	0.0
OF44-	OUTFALL	0.00	0.00	0.0
OF45-	OUTFALL	0.00	0.00	0.0
OF46-	OUTFALL	0.00	0.00	0.0
OF47-	OUTFALL	0.00	0.00	0.0
OF48-	OUTFALL	0.00	0.00	0.0
OF49-	OUTFALL	0.00	0.00	0.0
OF4-M	OUTFALL	175.62	1.10	0.0
OF50	OUTFALL	0.00	0.00	0.0
OF51	OUTFALL	0.00	0.00	0.0
OF52	OUTFALL	0.00	0.00	0.0

OF53	OUTFALL	0.00	0.00	0.0
OF54	OUTFALL	0.00	0.00	0.0
OF55	OUTFALL	0.00	0.00	0.0
OF56	OUTFALL	0.00	0.00	0.0
OF57	OUTFALL	0.00	0.00	0.0
OF58	OUTFALL	0.00	0.00	0.0
OF59	OUTFALL	0.00	0.00	0.0
OF5-M	OUTFALL	182.86	1.10	0.0
OF6-	OUTFALL	175.50	0.38	0.0
OF60	OUTFALL	0.00	0.00	0.0
OF61	OUTFALL	0.00	0.00	0.0
OF7-M	OUTFALL	177.13	1.10	0.0
OF8-	OUTFALL	176.00	0.15	0.0
OF9-M	OUTFALL	179.04	0.48	0.0
Gill_RD_Pond	STORAGE	176.65	2.85	0.0
Rice_Pond	STORAGE	179.25	4.75	0.0
SCU1	STORAGE	184.50	2.00	0.0
SCU2	STORAGE	187.00	2.00	0.0
SCU3	STORAGE	187.50	2.00	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness
C_dummy	MJ48	OF1-M	CONDUIT	7.2	20.4772	0.0350
C1	J24	OF33-	CONDUIT	89.0	0.8236	0.0130
C10	4395024795240	4393014795360	CONDUIT	236.8	0.1140	0.0130
C100	MH_39	MH_47	CONDUIT	24.9	0.2366	0.0130
C106	MH_37	MH_38	CONDUIT	44.0	0.5205	0.0130
C108	CBMH_40	CBMH_41	CONDUIT	54.3	0.3717	0.0130
C11	4393014795360	MJ152	CONDUIT	251.8	0.8898	0.0130
C110	CBMH_41	MH_45	CONDUIT	16.0	0.6109	0.0130
C111	CBMH_44	MH_45	CONDUIT	24.6	0.8692	0.0130
C113	MH_43	CBMH_44	CONDUIT	23.6	0.3733	0.0130
C114	CBMH_42	MH_43	CONDUIT	10.9	0.6398	0.0130
C115	J115	CBMH_42	CONDUIT	60.3	0.3733	0.0130
C116	MH_45	CBMH_46	CONDUIT	20.1	0.5367	0.0130
C118	CBMH_46	MH_47	CONDUIT	15.5	1.0454	0.0130
C119_1	CBMH_46	MH_47	CONDUIT	15.5	0.7550	0.0130

C119_2	MH_47	MH_67	CONDUIT	70.5	0.2921	0.0130
C12	4393464795440	4393014795360	CONDUIT	87.3	0.1946	0.0130
C123	MH_66	MH_67	CONDUIT	29.6	0.3513	0.0130
C124	MH_65	MH_66	CONDUIT	13.3	0.1802	0.0130
C125	MH_67	MH_68	CONDUIT	20.9	0.6846	0.0130
C126	MH_68	Rice_Pond	CONDUIT	6.4	0.3569	0.0130
C127	RICE_POND_OUTLET	MH_69	CONDUIT	56.2	0.8861	0.0130
C128	MH_69	MH_70	CONDUIT	68.2	0.7859	0.0130
C129	MH_70	OF14-	CONDUIT	15.0	0.8000	0.0130
C13	4393464795440	MJ155	CONDUIT	151.6	0.6001	0.0130
C130	MH_64	MH_65	CONDUIT	81.8	0.3336	0.0130
C14	4395014795520	MJ155	CONDUIT	88.4	0.5315	0.0130
C145	MH_56	MH_57	CONDUIT	60.6	0.4452	0.0130
C147	MH_57	MH_58	CONDUIT	13.0	0.6923	0.0130
C15	4394754795460	4395014795520	CONDUIT	67.7	0.8271	0.0130
C150	MH_58	MH_63	CONDUIT	18.3	0.5188	0.0130
C151	CBMH_62	MH_63	CONDUIT	16.2	0.5695	0.0130
C156	MH_61	CBMH_62	CONDUIT	90.9	0.5733	0.0130
C159	MH_59	MH_61	CONDUIT	34.7	0.6925	0.0130
C16	4395694795410	4396134795480	CONDUIT	80.3	0.9461	0.0130
C160	J106	MH_59	CONDUIT	30.5	0.4918	0.0130
C161	J105	J106	CONDUIT	66.0	0.5000	0.0130
C164	CBMH5	OF16-	CONDUIT	45.6	6.1581	0.0130
C165	J38	CBMH5	CONDUIT	22.7	0.8824	0.0130
C167	MH40	MH41	CONDUIT	49.1	0.3078	0.0130
C17	4396134795480	4395014795520	CONDUIT	121.3	0.4947	0.0130
C18	4396584795550	4396134795480	CONDUIT	85.0	0.8942	0.0130
C185	MH30	MH31	CONDUIT	37.4	0.1870	0.0130
C186	MH31	MH32	CONDUIT	50.8	0.2028	0.0130
C187	MH32	MH33	CONDUIT	15.1	0.2514	0.0130
C188	MH33	MH40	CONDUIT	109.6	0.2518	0.0130
C189	DCB72	MH37	CONDUIT	32.5	1.5263	0.0130
C19	4396744795620	4395174795720	CONDUIT	185.5	0.4206	0.0130
C190	MH37	MH38	CONDUIT	61.1	0.3337	0.0130
C193	MH38	MH39	CONDUIT	17.3	0.3808	0.0130
C194	MH39	MH40	CONDUIT	118.9	0.3961	0.0130
C2	MH_38	MH_39	CONDUIT	70.0	0.3500	0.0130
C20	4396584795550	MJ156	CONDUIT	208.4	0.5662	0.0130
C200-	MH8	MH9	CONDUIT	36.4	0.6039	0.0130
C205	MH34	MH35	CONDUIT	23.5	0.2973	0.0130
C206	MH35	MH36	CONDUIT	24.6	0.2316	0.0130

C207	MH36	MH41	CONDUIT	28.7	0.2716	0.0130
C21	4394414795760	4394784795740	CONDUIT	42.9	2.2173	0.0130
C211	DICBMH42	MH42	CONDUIT	6.5	-12.8118	0.0130
C212	MH42	MH43	CONDUIT	68.8	0.1904	0.0130
C213	MH43	OF27-1	CONDUIT	52.8	0.1894	0.0130
C22	4395174795720	4394784795740	CONDUIT	45.3	3.6040	0.0130
C228	MH15_Main	MH6_Main	CONDUIT	16.9	1.4799	0.0130
C229	CB29	CB30	CONDUIT	6.2	1.7808	0.0130
C23	4395174795720	MJ156	CONDUIT	71.4	0.6724	0.0130
C230	CB30_1	MH1_Main	CONDUIT	4.4	1.8111	0.0130
C231	CB33	MH2_Main	CONDUIT	2.5	-0.4040	0.0130
C232	CB31	CB32	CONDUIT	7.2	0.9773	0.0130
C233	CB32	MH2_Main	CONDUIT	12.5	0.5619	0.0130
C234	CB34	CB35	CONDUIT	6.7	1.4976	0.0130
C235	CB35	MH3_Main	CONDUIT	15.4	1.9516	0.0130
C239	CB42	MH5_Main	CONDUIT	15.1	1.3216	0.0130
C24	MH_26	MH_27	CONDUIT	5.7	3.5541	0.0130
C240	CB41	CB42	CONDUIT	6.9	2.8989	0.0130
C244	J49	MH15_Main	CONDUIT	6.0	2.1828	0.0130
C245	CB27	J48	CONDUIT	19.7	0.3548	0.0130
C246	J48	CBMH2	CONDUIT	23.9	2.5536	0.0130
C248	MH15	MH16	CONDUIT	44.7	0.4030	0.0130
C25	4392024795890	4391544795810	CONDUIT	94.8	1.2026	0.0130
C250	CB22	MH13	CONDUIT	9.6	10.4286	0.0130
C251	CB23	MH13	CONDUIT	9.8	1.0153	0.0130
C252	CB19	CB20	CONDUIT	15.2	1.4464	0.0130
C253	CB20	MH12	CONDUIT	15.9	0.8790	0.0130
C254	MH12	MH11	CONDUIT	12.7	7.2666	0.0130
C255	CB21	MH11	CONDUIT	3.3	9.6397	0.0130
C256	CB17	MH10	CONDUIT	13.1	1.2953	0.0130
C257	CB18	MH10	CONDUIT	2.9	3.4408	0.0130
C258	CB15	MH9	CONDUIT	9.3	0.2144	0.0130
C259	CB16	MH9	CONDUIT	4.3	2.3431	0.0130
C26	MH_11	MH_15	CONDUIT	56.2	0.5422	0.0130
C260	MH7	MH8	CONDUIT	81.0	0.4319	0.0130
C263	CBMH7	MH4	CONDUIT	22.6	1.2808	0.0130
C269	CBMH2	MH16	CONDUIT	20.1	3.1390	0.0130
C27	MH_14	MH_15	CONDUIT	97.1	0.8287	0.0130
C28	MH_15	MH_16	CONDUIT	22.7	0.6432	0.0130
C281	MH6	MH7	CONDUIT	43.9	0.4552	0.0130
C284	MH5	MH6	CONDUIT	23.2	0.3450	0.0130

C285	CBMH1	MH6	CONDUIT	41.3	0.3630	0.0130
C288	CBMH_1	MH_1	CONDUIT	47.1	0.4202	0.0130
C289	MH_1	MH_2	CONDUIT	75.0	0.7815	0.0130
C29	4391194795830	4391544795810	CONDUIT	41.4	1.4494	0.0130
C292	MH_2	OGS-	CONDUIT	18.2	0.4671	0.0130
C293	OGS-	OF13-1	CONDUIT	18.7	0.9573	0.0130
C3	MH_17	MH_39	CONDUIT	58.3	0.4049	0.0100
C30	4391884795900	4392024795890	CONDUIT	19.7	0.2030	0.0130
C31	4391884795900	4391664795910	CONDUIT	22.9	0.3057	0.0130
C32	4391504795920	4391304795930	CONDUIT	21.2	0.5660	0.0130
C33	4391504795920	4391664795910	CONDUIT	22.0	0.4091	0.0130
C34	4391664795910	4391194795830	CONDUIT	93.6	0.5449	0.0130
C343	MH21	MH22	CONDUIT	21.6	0.1389	0.0130
C344	MH23	MH24	CONDUIT	93.3	0.1822	0.0130
C345	MH24	CB-58	CONDUIT	59.4	0.2357	0.0130
C346	MH25	MH26	CONDUIT	70.2	0.4845	0.0130
C347	MH26	OF24-	CONDUIT	50.3	4.9804	0.0130
C348	J125	J91	CONDUIT	8.0	9.7806	0.0130
C349	J127	J125	CONDUIT	66.5	2.3475	0.0130
C35	4391304795930	4391014795950	CONDUIT	34.6	0.8382	0.0130
C350	J128	J127	CONDUIT	67.2	0.3125	0.0130
C351	J67	J70	CONDUIT	91.7	0.7678	0.0130
C352	J70	OF6-	CONDUIT	47.1	0.8940	0.0130
C353	J66	J116	CONDUIT	35.7	0.9794	0.0130
C36	4391014795950	4390544795870	CONDUIT	92.1	0.1954	0.0130
C37	4391304795930	4390824795850	CONDUIT	91.3	0.7558	0.0130
C38	CBMH_9	MH_10	CONDUIT	34.9	0.6868	0.0130
C39	4391194795830	4390824795850	CONDUIT	44.4	0.4730	0.0130
C4	MH_63	MH_64	CONDUIT	62.9	0.3243	0.0130
C40	MH_10	MH_11	CONDUIT	16.2	0.8334	0.0130
C41	4390544795870	4390824795850	CONDUIT	33.0	0.6667	0.0130
C42	4391544795810	OF13-2	CONDUIT	57.2	4.6225	0.0130
C43	MH_13	MH_14	CONDUIT	41.3	0.6443	0.0130
C437	J34	J128	CONDUIT	25.2	1.3320	0.0130
C44	4394784795740	OF1	CONDUIT	8.0	2.5045	0.0300
C47	MH_12	MH_13	CONDUIT	60.5	1.0409	0.0130
C48	MH_29	MH_30	CONDUIT	69.5	0.6041	0.0130
C5	MJ139	Gill_RD_Pond	CONDUIT	76.4	6.9284	0.0110
C50	MH_30	MH_37	CONDUIT	16.3	2.0267	0.0130
C53	MH_27	MH_37	CONDUIT	92.0	0.8152	0.0130
C54	MH_36	MH_37	CONDUIT	63.5	0.3592	0.0130

C6	J1	J7	CONDUIT	181.3	0.4193	0.0300
C60	MH_23	MH_26	CONDUIT	100.2	0.4763	0.0130
C63	MH_22	MH_23	CONDUIT	18.0	0.9153	0.0130
C65	MH_18	MH_22	CONDUIT	83.5	0.6394	0.0130
C653	MH11	MH13	CONDUIT	42.7	0.3981	0.0130
C655	MH3	MH4	CONDUIT	63.9	0.3132	0.0130
C656	MH2	MH3	CONDUIT	42.8	0.1401	0.0130
C657	MH13	CB26	CONDUIT	68.0	0.8672	0.0130
C658	MH13	MH14	CONDUIT	40.7	0.3932	0.0130
C660	MH9_Main	MH10_Main	CONDUIT	134.7	0.6089	0.0130
C662	MH6_Main	MH7_Main	CONDUIT	92.1	-0.0109	0.0130
C663	MH4_Main	MH5_Main	CONDUIT	85.2	0.9513	0.0130
C664	MH2_Main	MH3_Main	CONDUIT	67.3	0.7871	0.0130
C665	CB30	MH1_Main	CONDUIT	16.6	7.8707	0.0130
C666	MH16	OF17-	CONDUIT	30.3	0.6605	0.0130
C667	CBMH7_ON	CBMH8_ON	CONDUIT	93.3	0.4104	0.0130
C668	CBMH9_ON	CBMH10_Main	CONDUIT	10.0	31.7073	0.0130
C669	CBMH10_Main	OF19-	CONDUIT	19.7	6.4158	0.0130
C670	CBMH3_ON	CBMH4_ON	CONDUIT	68.5	0.3604	0.0130
C671	CBMH1_ON	CBMH2_ON	CONDUIT	105.9	0.2399	0.0130
C672	J78	J83	CONDUIT	190.5	0.0002	0.0130
C673	MH13_Main	MH13_Main_	CONDUIT	74.7	0.4015	0.0130
C674	J102	OF25-	CONDUIT	42.3	6.9030	0.0130
C68	MH_21	MH_22	CONDUIT	24.4	0.6525	0.0130
C685	J4	J5	CONDUIT	62.7	0.4560	0.0130
C686	J5	J12	CONDUIT	54.6	2.6223	0.0130
C687	J12	J15	CONDUIT	40.7	5.5862	0.0130
C688	J15	J20	CONDUIT	93.1	1.2852	0.0130
C689	J62	J24	CONDUIT	40.7	0.2749	0.0130
C69	MH_20	MH_21	CONDUIT	60.0	0.6596	0.0130
C690	J30	J5	CONDUIT	86.3	1.1007	0.0130
C7	J7	MJ112	CONDUIT	49.1	3.5856	0.0300
C70	MH_19	MH_20	CONDUIT	31.1	0.7786	0.0130
C700	MH8_Main	MH9_Main	CONDUIT	27.2	0.6251	0.0130
C701	MH10_Main	MH11_Main	CONDUIT	69.8	0.6305	0.0130
C702	MH11_Main	OF3-	CONDUIT	7.4	4.5982	0.0130
C703	CBMH2_ON	CBMH3_ON	CONDUIT	90.8	0.2785	0.0130
C704	CBMH4_ON	CBMH5_ON	CONDUIT	27.1	-0.2586	0.0130
C705	CBMH5_ON	CBMH6_ON	CONDUIT	72.7	0.1114	0.0130
C707	CBMH6_ON	CBMH7_ON	CONDUIT	91.7	0.1592	0.0130
C708	CBMH8_ON	CBMH9_ON	CONDUIT	79.3	0.5004	0.0130

C709	J83	OF29-	CONDUIT	45.1	-396.0446	0.0130
C710	J95	J93	CONDUIT	10.7	2.0277	0.0130
C711	J93	J98	CONDUIT	79.8	1.2003	0.0130
C712	J101	J102	CONDUIT	64.9	1.1805	0.0130
C713	J98	J101	CONDUIT	58.9	0.6124	0.0130
C714	MH22	MH23	CONDUIT	57.9	-0.1556	0.0130
C715	MH25-1	MH25	CONDUIT	30.2	0.1987	0.0130
C716	MH9	MH10	CONDUIT	57.5	0.7128	0.0130
C717	MH4	MH8	CONDUIT	38.6	0.4399	0.0130
C718	MH1	MH2	CONDUIT	16.9	0.5316	0.0130
C727	J20	J24	CONDUIT	88.3	1.2954	0.0130
C73	MH_25	MH_26	CONDUIT	65.2	0.6423	0.0130
C734	J55	J62	CONDUIT	34.5	0.2264	0.0130
C735	J52	J55	CONDUIT	62.4	0.2034	0.0130
C736	J30	J31	CONDUIT	67.5	0.4398	0.0130
C737	J31	J36	CONDUIT	84.5	6.5747	0.0130
C738	J36	J42	CONDUIT	77.5	1.0928	0.0130
C739	J42	J43	CONDUIT	32.8	0.5860	0.0130
C740	J43	J50	CONDUIT	47.7	0.6264	0.0130
C741	J50	J24	CONDUIT	16.8	0.6248	0.0130
C751	MH7_Main	MH8_Main	CONDUIT	54.4	4.5484	0.0130
C752	MH5_Main	MH6_Main	CONDUIT	90.8	0.5617	0.0130
C753	MH3_Main	MH4_Main	CONDUIT	41.9	0.9067	0.0130
C754	MH1_Main	MH2_Main	CONDUIT	52.8	0.9467	0.0130
C755	MH14_Main	MH15_Main	CONDUIT	42.1	0.1425	0.0130
C756	MH13_Main_	MH14_Main	CONDUIT	18.2	0.1653	0.0130
C757	MH10	MH11	CONDUIT	41.1	0.4136	0.0130
C758	CB26	OF12-	CONDUIT	38.4	0.5024	0.0130
C759	J116	OF8-	CONDUIT	21.4	2.1075	0.0130
C76	MH_24	MH_25	CONDUIT	24.0	2.0878	0.0130
C760	J35	J34	CONDUIT	22.3	1.0632	0.0130
C762	J47	J125	CONDUIT	12.5	3.2016	0.0130
C763	J91	OF20-	CONDUIT	10.3	3.5775	0.0130
C764	CB-58	MH25-1	CONDUIT	69.1	0.2460	0.0130
C765	J113	J110	CONDUIT	25.4	0.3945	0.0130
C766	J110	J101	CONDUIT	60.7	0.0889	0.0130
C767	MH14	MH15	CONDUIT	29.7	0.3700	0.0130
C77	MH_35	MH_36	CONDUIT	19.6	0.3563	0.0130
C8	J8	Rice_Pond	CONDUIT	36.1	2.4884	0.0110
C80	MH_34	MH_35	CONDUIT	63.7	0.5103	0.0130
C9	MJ145	MJ146	CONDUIT	105.6	0.1610	0.0130

C94	MH_16	MH_17	CONDUIT	104.8	0.4235	0.0130
CB72	MH41	Gill_RD_Pond	CONDUIT	58.9	0.8999	0.0130
MC_C6	MJ_	MJ64	CONDUIT	21.5	2.1384	0.0130
MC1	MJ1	MJ3	CONDUIT	135.2	0.0577	0.0130
MC10	MJ9	OF2-M-	CONDUIT	124.6	1.2312	0.0130
MC100	MJ81	MJ78	CONDUIT	11.0	0.1455	0.0130
MC101	MJ78	MJ90	CONDUIT	92.0	1.5904	0.0130
MC102	MJ80	MJ73	CONDUIT	32.3	1.1394	0.0130
MC103	MJ80	MJ83	CONDUIT	24.9	0.9719	0.0130
MC104	MJ82	MJ79	CONDUIT	7.9	0.5063	0.0130
MC105	MJ82	MJ74	CONDUIT	56.6	0.0707	0.0130
MC107	MJ84	MJ77	CONDUIT	36.5	9.0478	0.0130
MC108	MJ84	MJ91	CONDUIT	60.6	2.4876	0.0130
MC109	MJ84	MJ76	CONDUIT	61.1	3.1243	0.0130
MC11	MJ10	MJ14	CONDUIT	49.5	4.0700	0.0130
MC12	MJ10	MJ2	CONDUIT	159.9	3.5989	0.0130
MC120	MJ85	MJ74	CONDUIT	66.1	1.8778	0.0130
MC121	MJ85	MJ87	CONDUIT	41.9	1.3629	0.0130
MC122	MJ85	MJ81	CONDUIT	59.8	1.2392	0.0130
MC123	MJ93	MJ85	CONDUIT	57.7	1.8617	0.0130
MC124	MJ86	MJ80	CONDUIT	86.8	1.8805	0.0130
MC125	MJ88	MJ95	CONDUIT	403.1	0.4691	0.0130
MC126	MJ89	MJ83	CONDUIT	36.8	0.7609	0.0130
MC128	MJ91	MJ102	CONDUIT	82.5	1.5456	0.0130
MC129	MJ86	MJ91	CONDUIT	60.8	0.3536	0.0130
MC13	MJ11	MJ13	CONDUIT	28.6	0.4056	0.0130
MC130	MJ91	MJ97	CONDUIT	30.7	5.5591	0.0130
MC131	MJ92	MJ99	CONDUIT	33.3	1.7720	0.0130
MC132	MJ92	MJ122	CONDUIT	287.2	0.5975	0.0130
MC133	MJ92	MJ70	CONDUIT	133.7	2.0221	0.0130
MC135	MJ84	MJ94	CONDUIT	121.6	0.9268	0.0130
MC136	MJ95	MJ112	CONDUIT	81.9	0.6447	0.0130
MC137	MJ103	MJ96	CONDUIT	71.8	0.1267	0.0130
MC139	MJ98	MJ87	CONDUIT	106.9	0.0440	0.0130
MC14	MJ12	MJ3	CONDUIT	167.3	0.9635	0.0130
MC141	MJ101	MJ98	CONDUIT	20.7	1.5606	0.0130
MC142	MJ108	MJ98	CONDUIT	63.1	3.6601	0.0130
MC143	MJ99	MJ104	CONDUIT	59.7	1.9736	0.0130
MC144	MJ99	MJ107	CONDUIT	53.1	2.2812	0.0130
MC145	MJ100	OF9-M	CONDUIT	138.6	2.3246	0.0130
MC146	MJ103	MJ97	CONDUIT	29.3	1.9492	0.0130

MC147	MJ104	MJ116	CONDUIT	142.9	1.5579	0.0130
MC148	MJ115	MJ105	CONDUIT	61.4	1.5490	0.0130
MC149	MJ106	MJ102	CONDUIT	39.2	1.8115	0.0130
MC15	MJ14	MJ30	CONDUIT	22.9	0.5883	0.0130
MC150	MJ107	MJ129	CONDUIT	206.3	1.1586	0.0130
MC151	MJ104	MJ107	CONDUIT	29.0	0.1138	0.0130
MC152	MJ108	MJ93	CONDUIT	150.2	0.4727	0.0130
MC153	MJ108	MJ118	CONDUIT	62.4	1.5515	0.0130
MC154	MJ109	MJ114	CONDUIT	25.0	1.4442	0.0130
MC155	MJ109	MJ103	CONDUIT	37.9	4.9930	0.0130
MC156	MJ110	MJ128	CONDUIT	118.5	0.0262	0.0130
MC157	MJ111	MJ110	CONDUIT	74.0	0.6000	0.0130
MC158	MJ111	MJ112	CONDUIT	58.1	3.3254	0.0130
MC159	MJ112	MJ119	CONDUIT	53.0	0.7963	0.0130
MC16	MJ15	MJ36	CONDUIT	260.4	2.2510	0.0130
MC160	MJ113	MJ102	CONDUIT	59.9	2.2928	0.0130
MC161	MJ113	MJ103	CONDUIT	86.8	1.4183	0.0130
MC162	MJ114	MJ120	CONDUIT	85.2	0.7148	0.0130
MC163	MJ114	MJ101	CONDUIT	125.8	0.6717	0.0130
MC164	MJ117	MJ115	CONDUIT	27.5	0.4255	0.0130
MC165	MJ116	MJ129	CONDUIT	80.1	0.2459	0.0130
MC166	MJ117	MJ131	CONDUIT	101.8	1.2653	0.0130
MC167	MJ117	MJ90	CONDUIT	147.0	2.6315	0.0130
MC168	MJ118	MJ105	CONDUIT	150.7	0.1573	0.0130
MC169	MJ119	OF26-M	CONDUIT	75.5	2.2310	0.0110
MC17	MJ15	MJ7	CONDUIT	93.9	2.0697	0.0130
MC170	MJ113	MJ120	CONDUIT	61.3	0.5073	0.0130
MC171	MJ121	MJ115	CONDUIT	74.5	1.6620	0.0130
MC172	MJ122	MJ100	CONDUIT	133.6	1.4897	0.0130
MC173	MJ123	MJ114	CONDUIT	62.5	4.1716	0.0130
MC174	MJ123	MJ127	CONDUIT	79.9	1.5985	0.0130
MC175	MJ123	MJ130	CONDUIT	62.4	1.7150	0.0130
MC176	MJ123	MJ108	CONDUIT	146.0	1.0035	0.0130
MC177	MJ124	MJ119	CONDUIT	39.3	0.4300	0.0130
MC178	MJ125	MJ118	CONDUIT	59.8	2.3468	0.0130
MC179	MJ126	MJ131	CONDUIT	44.9	2.0049	0.0130
MC18	MJ16	MJ13	CONDUIT	89.0	0.0494	0.0130
MC180	MJ126	MJ122	CONDUIT	88.7	1.0158	0.0130
MC181	MJ127	MJ120	CONDUIT	62.4	3.1057	0.0130
MC182_1	MJ128	MH41_S	CONDUIT	49.8	0.4619	0.0130
MC182_2	MH36_S	MH34_S	CONDUIT	36.1	1.3508	0.0130

MC182_3	MH36_S	MH41_S	CONDUIT	28.8	0.3848	0.0130
MC182_5	MH34_S	MJ124	CONDUIT	33.6	3.2856	0.0130
MC183	MJ129	MJ132	CONDUIT	28.7	0.1324	0.0130
MC184	MJ130	MJ118	CONDUIT	143.9	0.9472	0.0130
MC185	MJ131	MJ135	CONDUIT	67.8	1.4751	0.0130
MC186	MJ131	MJ136	CONDUIT	53.3	1.6663	0.0130
MC187	MJ133	MJ125	CONDUIT	98.4	0.4624	0.0130
MC188	MJ147	MJ134	CONDUIT	173.9	0.9328	0.0130
MC189	MJ136	MJ134	CONDUIT	97.4	2.0292	0.0130
MC19	MJ17	MJ19	CONDUIT	20.2	4.1620	0.0130
MC190	MJ136	MJ148	CONDUIT	187.8	0.1874	0.0130
MC191	MJ137	MJ134	CONDUIT	270.3	0.3862	0.0130
MC192	MJ138	MJ130	CONDUIT	82.2	2.1465	0.0130
MC193	MJ138	MJ143	CONDUIT	110.3	3.3328	0.0130
MC194_1	MH37_S	MJ139	CONDUIT	27.9	1.4505	0.0130
MC194_2	MH37_S	MJ140	CONDUIT	79.1	0.2034	0.0130
MC195	MJ140	MJ128	CONDUIT	131.2	0.0663	0.0130
MC196	MJ149	MH2_S	CONDUIT	23.9	0.2093	0.0130
MC197	MH3_S	MH2_S	CONDUIT	42.6	0.3760	0.0130
MC198	MJ143	MH3_S	CONDUIT	68.5	0.0730	0.0130
MC199	MJ143	MH8_S	CONDUIT	28.8	0.6939	0.0130
MC2	MJ2	MJ1	CONDUIT	43.3	0.6537	0.0130
MC20	MJ25	MJ18	CONDUIT	41.3	0.2322	0.0130
MC200	MH8_S	MH9__S	CONDUIT	41.7	0.5519	0.0130
MC201	MH9__S	MH10__S	CONDUIT	57.2	1.0142	0.0130
MC202	MH10__S	MH11__S	CONDUIT	42.2	0.9005	0.0130
MC203	MJ144	MJ145	CONDUIT	172.1	0.1859	0.0130
MC204	MJ144	MJ124	CONDUIT	199.9	1.2367	0.0130
MC205	MJ145	OF22_M	CONDUIT	55.0	2.5754	0.0130
MC206	MJ147	MH21_S	CONDUIT	67.2	0.3124	0.0130
MC207_1	MH21_S	J9	CONDUIT	23.4	0.3116	0.0130
MC207_3	J9	J10	CONDUIT	60.9	0.3120	0.0130
MC207_4	J10	MJ146	CONDUIT	55.8	0.3138	0.0130
MC208	MJ148	MJ147	CONDUIT	23.7	0.0084	0.0130
MC209	MJ150	MJ151	CONDUIT	45.7	2.3179	0.0130
MC21	MJ19	OF4-M	CONDUIT	39.7	13.9110	0.0130
MC210	MJ150	MH8_S	CONDUIT	139.7	0.3442	0.0130
MC211	MJ151	OF11-M	CONDUIT	12.4	4.6987	0.0130
MC212	MJ152	MJ148	CONDUIT	288.9	0.2388	0.0130
MC213	MJ153	MJ152	CONDUIT	245.8	0.2522	0.0130
MC214_1	MJ154	J8	CONDUIT	73.9	0.1056	0.0130

MC214_2	J8	MJ153	CONDUIT	72.7	0.1059	0.0130
MC215	MJ155	MJ154	CONDUIT	125.0	0.5648	0.0130
MC216	MJ156	MJ155	CONDUIT	105.8	0.6323	0.0130
MC217	MJ156	MJ154	CONDUIT	187.0	0.7353	0.0130
MC219	MJ135	MJ142	CONDUIT	72.7	0.8639	0.0130
MC22	MJ20	MJ32	CONDUIT	77.6	1.7280	0.0130
MC220	MJ135	MH11__S	CONDUIT	42.3	1.1336	0.0130
MC221	MJ53	MJ61	CONDUIT	58.5	2.5772	0.0130
MC223	MJ53	MJ46	CONDUIT	55.3	1.2482	0.0130
MC224	MJ54	MJ37	CONDUIT	94.3	4.0462	0.0130
MC225	MJ68	MJ75	CONDUIT	37.1	3.3579	0.0130
MC226	MJ79	MJ72	CONDUIT	28.7	0.7328	0.0130
MC227	MJ83	MJ72	CONDUIT	90.7	0.0441	0.0130
MC228	MJ89	MJ82	CONDUIT	90.5	0.0774	0.0130
MC229	MJ96	MJ89	CONDUIT	75.8	0.2044	0.0130
MC23	MJ21	MJ13	CONDUIT	131.7	0.2475	0.0130
MC230	MJ98	MJ89	CONDUIT	60.9	0.9969	0.0130
MC231	MJ93	MJ105	CONDUIT	63.5	0.7798	0.0130
MC232	MJ18	MJ26	CONDUIT	61.8	0.7819	0.0130
MC24	MJ22	OF32-M	CONDUIT	84.3	1.4723	0.0130
MC25	MJ23	MJ21	CONDUIT	34.3	0.9826	0.0130
MC26	MJ45	MJ25	CONDUIT	60.8	2.1998	0.0130
MC27	MJ26	OF31-M	CONDUIT	95.3	1.5725	0.0130
MC28	MJ27	OF2-M	CONDUIT	95.8	2.8401	0.0130
MC29	MJ28	MJ32	CONDUIT	40.6	2.8199	0.0130
MC3	MJ3	OF7-M	CONDUIT	20.9	1.2253	0.0130
MC30	MJ28	MJ31	CONDUIT	53.6	3.7550	0.0130
MC31	MJ17	MJ29	CONDUIT	88.9	0.8887	0.0130
MC32	MJ30	MJ31	CONDUIT	78.6	0.3522	0.0130
MC33	MJ31	MJ1	CONDUIT	86.7	4.1641	0.0130
MC34	MJ32	MJ57	CONDUIT	101.0	3.0805	0.0130
MC35	MJ33	MJ29	CONDUIT	32.9	1.9730	0.0130
MC36	MJ33	MJ38	CONDUIT	47.9	0.0397	0.0130
MC37	MJ34	MJ21	CONDUIT	54.9	1.3972	0.0130
MC38	MJ35	MJ27	CONDUIT	41.9	0.7995	0.0130
MC39	MJ36	MJ24	CONDUIT	173.3	0.4963	0.0130
MC4	MJ4	MJ2	CONDUIT	63.0	3.0989	0.0130
MC40	MJ158	MJ44	CONDUIT	40.0	0.2123	0.0130
MC41	MJ37	MJ48	CONDUIT	129.5	1.6902	0.0130
MC42	MJ39	MJ47	CONDUIT	30.9	3.6237	0.0130
MC43	MJ39	MJ29	CONDUIT	79.1	3.6801	0.0130

MC44	MJ40	MJ19	CONDUIT	124.8	1.5467	0.0130
MC45	MJ40	MJ47	CONDUIT	55.7	0.1616	0.0130
MC46	MJ41	MJ25	CONDUIT	69.8	0.0487	0.0130
MC47	MJ42	MJ35	CONDUIT	55.8	0.8961	0.0130
MC48	MJ43	MJ22	CONDUIT	206.3	0.2385	0.0130
MC49	MJ43	MJ67	CONDUIT	226.5	0.2927	0.0130
MC5	MJ5	MJ10	CONDUIT	19.1	0.6550	0.0130
MC50	MJ44	MJ26	CONDUIT	144.4	0.3587	0.0130
MC51	MJ45	MJ26	CONDUIT	67.7	2.8309	0.0130
MC52	MJ45	MJ20	CONDUIT	51.3	2.9504	0.0130
MC53	MJ46	MJ35	CONDUIT	63.7	2.2062	0.0130
MC54	MJ49	MJ47	CONDUIT	23.3	0.3004	0.0130
MC55	MJ49	MJ58	CONDUIT	54.2	0.8875	0.0130
MC56	MJ56	MJ49	CONDUIT	45.8	0.0371	0.0130
MC57	MJ49	MJ38	CONDUIT	67.0	1.8361	0.0130
MC58	MJ50	MJ52	CONDUIT	27.6	0.0435	0.0130
MC59	MJ51	MJ55	CONDUIT	99.2	2.5240	0.0130
MC6	MJ13	OF3-M	CONDUIT	79.6	1.0905	0.0130
MC62	MJ54	MJ61	CONDUIT	36.0	4.7442	0.0130
MC64	MJ55	MJ48	CONDUIT	45.0	4.6316	0.0130
MC65	MJ56	MJ63	CONDUIT	58.9	1.1665	0.0130
MC66	MJ56	MJ34	CONDUIT	146.2	2.2057	0.0130
MC67	MJ56	MJ74	CONDUIT	85.4	0.3126	0.0130
MC68	MJ57	MJ3	CONDUIT	39.4	3.6608	0.0130
MC69	MJ52	MJ58	CONDUIT	38.1	0.4514	0.0130
MC7	MJ7	MJ22	CONDUIT	333.2	0.1279	0.0130
MC70	MJ60	MJ55	CONDUIT	42.2	3.5069	0.0130
MC71	MJ62	MJ69	CONDUIT	71.4	2.2078	0.0130
MC72	MJ62	MJ51	CONDUIT	50.3	5.6551	0.0130
MC73	MJ63	MJ42	CONDUIT	112.4	1.4014	0.0130
MC74	MJ63	MJ64	CONDUIT	18.0	0.3333	0.0130
MC75	MJ72	MJ63	CONDUIT	54.8	0.3832	0.0130
MC76	MJ_	MJ53	CONDUIT	34.0	1.1168	0.0130
MC77	MJ65	MJ73	CONDUIT	28.0	0.4357	0.0130
MC78	MJ65	MJ61	CONDUIT	37.1	4.6736	0.0130
MC79	MJ66	MJ55	CONDUIT	57.6	3.0587	0.0130
MC8	MJ8	MJ36	CONDUIT	243.0	2.6058	0.0130
MC80	MJ67	MJ92	CONDUIT	237.2	0.0105	0.0130
MC82	MJ68	MJ59	CONDUIT	52.0	4.3676	0.0130
MC83	MJ68	MJ59	CONDUIT	83.2	2.7282	0.0130
MC84	MJ69	MJ60	CONDUIT	54.2	4.2252	0.0130

MC85	MJ70	MJ100	CONDUIT	282.1	0.3555	0.0130
MC86	MJ70	OF30-M	CONDUIT	133.3	2.5778	0.0130
MC87	MJ71	MJ48	CONDUIT	114.6	2.2320	0.0130
MC89	MJ73	MJ64	CONDUIT	74.1	0.2483	0.0130
MC9	MJ8	MJ15	CONDUIT	154.2	0.3048	0.0130
MC90	MJ78	MJ75	CONDUIT	16.0	1.0251	0.0130
MC91	MJ75	OF5-M	CONDUIT	38.8	0.2835	0.0130
MC92	MJ76	MJ69	CONDUIT	35.2	4.0943	0.0130
MC93	MJ76	MJ65	CONDUIT	84.9	1.4866	0.0130
MC97	MJ86	MJ76	CONDUIT	59.5	1.0353	0.0130
MC98	MJ77	MJ66	CONDUIT	50.5	4.0925	0.0130
MC99	MJ77	MJ69	CONDUIT	59.5	0.0992	0.0130
MJ-C5	J1	J2	CONDUIT	172.3	0.1625	0.0300
MJ-C6	J2	J3	CONDUIT	167.9	0.7682	0.0300
MJ-C7	J3	J6	CONDUIT	110.4	0.3169	0.0300
MJ-C8	J6	OF27-M	CONDUIT	80.0	2.9621	0.0300
OL5	Gill_RD_Pond	DICBMH42	ORIFICE			
OR1	SCU1	MH_59	ORIFICE			
OR2	SCU2	4394754795460	ORIFICE			
OR3	SCU3	MJ152	ORIFICE			
OL1	Rice_Pond	RICE_POND_OUTLET	OUTLET			
OL10	MH3_S	MH3	OUTLET			
OL11	MJ148	CBMH5	OUTLET			
OL12	MJ147	J128	OUTLET			
OL13	MH21_S	MH21	OUTLET			
OL14	MJ146	MH24	OUTLET			
OL15	MH9__S	MH9	OUTLET			
OL16	MJ21	MH9_Main	OUTLET			
OL17	MJ13	MH10_Main	OUTLET			
OL18	MJ151	MH5	OUTLET			
OL19	MJ112	MH30	OUTLET			
OL2	MJ135	MH13	OUTLET			
OL20	MH34_S	MH34	OUTLET			
OL21	MH37_S	MH37	OUTLET			
OL22	MJ56	MH6_Main	OUTLET			
OL23	MJ74	MH5_Main	OUTLET			
OL24	MJ93	MH3_Main	OUTLET			
OL25	MJ105	MH2_Main	OUTLET			
OL26	MJ115	MH1_Main	OUTLET			
OL27	MJ154	MH_39	OUTLET			
OL28	MJ134	J125	OUTLET			

OL29	MJ142	CB26	OUTLET
OL3	MH2_S	MH2	OUTLET
OL30	MJ67	CBMH1_ON	OUTLET
OL31	MJ15	J5	OUTLET
OL32	MJ36	J24	OUTLET
OL33	MJ8	J31	OUTLET
OL34	MJ24	J52	OUTLET
OL35	MJ104	J95	OUTLET
OL36	MJ107	J113	OUTLET
OL37	MJ129	J101	OUTLET
OL38	MJ132	J102	OUTLET
OL39	MJ92	CBMH5_ON	OUTLET
OL4	MJ143	MH4	OUTLET
OL40	MJ122	CBMH8_ON	OUTLET
OL41	MJ126	CBMH9_ON	OUTLET
OL42	MJ145	CB-58	OUTLET
OL43	MJ144	MH26	OUTLET
OL44	MJ156	MH_15	OUTLET
OL45	MJ155	MH_37	OUTLET
OL46	MJ153	MH_65	OUTLET
OL47	MJ73	MH13_Main	OUTLET
OL48	MJ63	MH14_Main	OUTLET
OL49	MJ64	MH13_Main_	OUTLET
OL50	MJ140	MH39	OUTLET
OL51	MJ128	MH40	OUTLET
OL52	MJ110	MH32	OUTLET
OL53	MJ3	J70	OUTLET
OL54	MJ85	MH4_Main	OUTLET
OL55	MH8_S	MH8	OUTLET
OL56	J9	MH22	OUTLET
OL57	J10	MH23	OUTLET
OL58	4390544795870	CBMH_1	OUTLET
OL59	4395174795720	MH_10	OUTLET
OL6	MJ131	CBMH2	OUTLET
OL60	4396584795550	MH_18	OUTLET
OL61	4396584795550	MH_12	OUTLET
OL62	MH_19	4395694795410	OUTLET
OL63	4393464795440	MH_34	OUTLET
OL7	MJ152	MH_56	OUTLET
OL8	MH10__S	MH10	OUTLET
OL9	MH11__S	MH11	OUTLET

OR4 J8 MH_67 OUTLET

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C_dummy	TRIANGULAR	1.00	1.20	0.38	2.40	1	8.20
C1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.30
C10	Main_Street	0.35	4.72	0.24	23.30	1	4.77
C100	CIRCULAR	0.82	0.53	0.21	0.82	1	0.70
C106	CIRCULAR	0.68	0.36	0.17	0.68	1	0.61
C108	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C11	Main_Street	0.35	4.72	0.24	23.30	1	13.32
C110	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C111	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C113	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C114	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C115	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C116	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C118	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C119_1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.25
C119_2	CIRCULAR	0.82	0.53	0.21	0.82	1	0.78
C12	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	7.61
C123	CIRCULAR	0.45	0.16	0.11	0.45	1	0.17
C124	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C125	CIRCULAR	0.90	0.64	0.23	0.90	1	1.50
C126	CIRCULAR	0.90	0.64	0.23	0.90	1	1.08
C127	CIRCULAR	0.53	0.22	0.13	0.53	1	0.40
C128	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C129	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C13	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	13.37
C130	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C14	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	70.22
C145	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C147	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C15	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	15.70
C150	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C151	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13

C156	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C159	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C16	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	16.79
C160	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C161	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C164	CIRCULAR	0.45	0.16	0.11	0.45	1	0.71
C165	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C167	CIRCULAR	0.53	0.22	0.13	0.53	1	0.24
C17	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	67.75
C18	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	16.32
C185	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C186	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C187	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C188	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C189	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C19	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	62.46
C190	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C193	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C194	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C2	CIRCULAR	0.68	0.36	0.17	0.68	1	0.50
C20	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	12.99
C200-	CIRCULAR	0.60	0.28	0.15	0.60	1	0.48
C205	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C206	CIRCULAR	0.45	0.16	0.11	0.45	1	0.14
C207	CIRCULAR	0.45	0.16	0.11	0.45	1	0.15
C21	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.42
C211	CIRCULAR	0.82	0.53	0.21	0.82	1	5.14
C212	CIRCULAR	0.82	0.53	0.21	0.82	1	0.63
C213	CIRCULAR	0.82	0.53	0.21	0.82	1	0.62
C22	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	182.85
C228	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C229	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C23	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.98
C230	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C231	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C232	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C233	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C234	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C235	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C239	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C24	CIRCULAR	0.53	0.22	0.13	0.53	1	0.81

C240	CIRCULAR	0.30	0.07	0.07	0.30	1	0.16
C244	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C245	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C246	CIRCULAR	0.53	0.22	0.13	0.53	1	0.69
C248	CIRCULAR	0.82	0.53	0.21	0.82	1	0.91
C25	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	105.63
C250	CIRCULAR	0.30	0.07	0.07	0.30	1	0.31
C251	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C252	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C253	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C254	CIRCULAR	0.30	0.07	0.07	0.30	1	0.26
C255	CIRCULAR	0.30	0.07	0.07	0.30	1	0.30
C256	CIRCULAR	0.38	0.11	0.09	0.38	1	0.20
C257	CIRCULAR	0.30	0.07	0.07	0.30	1	0.18
C258	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C259	CIRCULAR	0.30	0.07	0.07	0.30	1	0.15
C26	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21
C260	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C263	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C269	CIRCULAR	0.38	0.11	0.09	0.38	1	0.31
C27	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C28	CIRCULAR	0.60	0.28	0.15	0.60	1	0.49
C281	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C284	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C285	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C288	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C289	CIRCULAR	0.45	0.16	0.11	0.45	1	0.25
C29	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	115.96
C292	CIRCULAR	0.45	0.16	0.11	0.45	1	0.19
C293	CIRCULAR	0.45	0.16	0.11	0.45	1	0.28
C3	CIRCULAR	0.60	0.28	0.15	0.60	1	0.51
C30	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.40
C31	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.25
C32	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	72.47
C33	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	61.61
C34	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	71.10
C343	CIRCULAR	0.38	0.11	0.09	0.38	1	0.07
C344	CIRCULAR	0.68	0.36	0.17	0.68	1	0.36
C345	CIRCULAR	0.82	0.53	0.21	0.82	1	0.70
C346	CIRCULAR	0.82	0.53	0.21	0.82	1	1.00
C347	CIRCULAR	0.82	0.53	0.21	0.82	1	3.20

C348	CIRCULAR	0.45	0.16	0.11	0.45	1	0.89
C349	CIRCULAR	0.45	0.16	0.11	0.45	1	0.44
C35	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	88.18
C350	CIRCULAR	0.40	0.13	0.10	0.40	1	0.12
C351	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C352	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C353	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C36	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	42.58
C37	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	83.73
C38	CIRCULAR	0.45	0.16	0.11	0.45	1	0.24
C39	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	66.24
C4	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C40	CIRCULAR	0.45	0.16	0.11	0.45	1	0.26
C41	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.64
C42	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	207.08
C43	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C437	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C44	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	2.96
C47	CIRCULAR	0.25	0.05	0.06	0.25	1	0.06
C48	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C5	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	13.42
C50	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C53	CIRCULAR	0.60	0.28	0.15	0.60	1	0.55
C54	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C6	TRIANGULAR	1.00	1.20	0.38	2.40	1	1.37
C60	CIRCULAR	0.45	0.16	0.11	0.45	1	0.20
C63	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C65	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C653	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C655	CIRCULAR	0.60	0.28	0.15	0.60	1	0.34
C656	CIRCULAR	0.60	0.28	0.15	0.60	1	0.23
C657	CIRCULAR	0.68	0.36	0.17	0.68	1	0.78
C658	CIRCULAR	0.82	0.53	0.21	0.82	1	0.90
C660	CIRCULAR	0.45	0.16	0.11	0.45	1	0.22
C662	CIRCULAR	0.45	0.16	0.11	0.45	1	0.03
C663	CIRCULAR	0.45	0.16	0.11	0.45	1	0.28
C664	CIRCULAR	0.45	0.16	0.11	0.45	1	0.25
C665	CIRCULAR	0.30	0.07	0.07	0.30	1	0.27
C666	CIRCULAR	0.82	0.53	0.21	0.82	1	1.17
C667	CIRCULAR	0.60	0.28	0.15	0.60	1	0.39
C668	CIRCULAR	0.75	0.44	0.19	0.75	1	6.27

C669	CIRCULAR	0.82	0.53	0.21	0.82	1	3.64
C670	CIRCULAR	0.60	0.28	0.15	0.60	1	0.37
C671	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C672	CIRCULAR	0.30	0.07	0.07	0.30	1	0.00
C673	CIRCULAR	0.45	0.16	0.11	0.45	1	0.18
C674	CIRCULAR	0.45	0.16	0.11	0.45	1	0.75
C68	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C685	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C686	CIRCULAR	0.38	0.11	0.09	0.38	1	0.28
C687	CIRCULAR	0.38	0.11	0.09	0.38	1	0.41
C688	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C689	CIRCULAR	0.68	0.36	0.17	0.68	1	0.44
C69	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C690	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C7	TRIANGULAR	1.00	1.20	0.38	2.40	1	4.00
C70	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C700	CIRCULAR	0.45	0.16	0.11	0.45	1	0.23
C701	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C702	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C703	CIRCULAR	0.47	0.18	0.12	0.47	1	0.17
C704	CIRCULAR	0.60	0.28	0.15	0.60	1	0.31
C705	CIRCULAR	0.60	0.28	0.15	0.60	1	0.20
C707	CIRCULAR	0.60	0.28	0.15	0.60	1	0.25
C708	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C709	CIRCULAR	0.30	0.07	0.07	0.30	1	1.92
C710	CIRCULAR	0.25	0.05	0.06	0.25	1	0.08
C711	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C712	CIRCULAR	0.38	0.11	0.09	0.38	1	0.19
C713	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C714	CIRCULAR	0.60	0.28	0.15	0.60	1	0.24
C715	CIRCULAR	0.82	0.53	0.21	0.82	1	0.64
C716	CIRCULAR	0.75	0.44	0.19	0.75	1	0.94
C717	CIRCULAR	0.60	0.28	0.15	0.60	1	0.41
C718	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C727	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C73	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C734	CIRCULAR	0.68	0.36	0.17	0.68	1	0.40
C735	CIRCULAR	0.68	0.36	0.17	0.68	1	0.38
C736	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C737	CIRCULAR	0.38	0.11	0.09	0.38	1	0.45
C738	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18

C739	CIRCULAR	0.53	0.22	0.13	0.53	1	0.33
C740	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C741	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C751	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C752	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21
C753	CIRCULAR	0.45	0.16	0.11	0.45	1	0.27
C754	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C755	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C756	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C757	CIRCULAR	0.75	0.44	0.19	0.75	1	0.72
C758	CIRCULAR	0.68	0.36	0.17	0.68	1	0.60
C759	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C76	CIRCULAR	0.25	0.05	0.06	0.25	1	0.09
C760	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C762	CIRCULAR	0.30	0.07	0.07	0.30	1	0.17
C763	CIRCULAR	0.45	0.16	0.11	0.45	1	0.54
C764	CIRCULAR	0.82	0.53	0.21	0.82	1	0.71
C765	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C766	CIRCULAR	0.25	0.05	0.06	0.25	1	0.02
C767	CIRCULAR	0.82	0.53	0.21	0.82	1	0.87
C77	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	8.04
C80	CIRCULAR	0.45	0.16	0.11	0.45	1	0.20
C9	Gill_Rd_	1.10	31.42	0.52	44.00	1	62.58
C94	CIRCULAR	0.60	0.28	0.15	0.60	1	0.40
CB72	CIRCULAR	0.53	0.22	0.13	0.53	1	0.41
MC_C6	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	140.85
MC1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	23.13
MC10	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.88
MC100	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	36.73
MC101	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.47
MC102	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	102.81
MC103	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.96
MC104	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.54
MC105	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	25.61
MC107	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	289.72
MC108	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	151.91
MC109	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	170.25
MC11	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.32
MC12	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	182.72
MC120	Main_Street	0.35	4.72	0.24	23.30	1	19.35

MC121	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	112.45
MC122	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.22
MC123	Main_Street	0.35	4.72	0.24	23.30	1	19.26
MC124	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	132.08
MC125	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.97
MC126	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	84.02
MC128	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.75
MC129	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.28
MC13	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	61.34
MC130	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	227.10
MC131	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	22.98
MC132	Ontario_Street	0.35	4.71	0.26	19.00	1	11.26
MC133	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	136.97
MC135	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	92.73
MC136	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.34
MC137	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	34.29
MC139	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.20
MC14	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.54
MC141	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.32
MC142	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.27
MC143	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.25
MC144	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.07
MC145	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.32
MC146	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	134.47
MC147	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.22
MC148	Main_Street	0.35	4.72	0.24	23.30	1	17.57
MC149	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	129.64
MC15	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	73.88
MC150	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	103.67
MC151	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	32.49
MC152	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	66.22
MC153	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.97
MC154	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	115.75
MC155	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	215.22
MC156	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	15.58
MC157	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	74.61
MC158	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.64
MC159	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.95
MC16	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	144.51
MC160	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	145.84
MC161	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.71

MC162	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	81.43
MC163	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.94
MC164	Main_Street	0.35	4.72	0.24	23.30	1	9.21
MC165	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.56
MC166	Main_Street	0.35	4.72	0.24	23.30	1	15.88
MC167	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.25
MC168	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	38.20
MC169	TRAPEZOIDAL	1.00	5.40	0.62	8.40	1	53.26
MC17	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	138.57
MC170	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.61
MC171	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	124.17
MC172	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	21.07
MC173	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.73
MC174	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.78
MC175	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.14
MC176	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.49
MC177	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.16
MC178	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	147.55
MC179	Ontario_Street	0.35	4.71	0.26	19.00	1	20.63
MC18	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.42
MC180	Ontario_Street	0.35	4.71	0.26	19.00	1	14.69
MC181	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.74
MC182_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.46
MC182_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	111.95
MC182_3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.75
MC182_5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	174.59
MC183	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	35.05
MC184	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.74
MC185	Ontario_Street	0.35	4.71	0.26	19.00	1	17.70
MC186	Main_Street	0.35	4.72	0.24	23.30	1	18.22
MC187	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.50
MC188	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.02
MC189	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.59
MC19	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.50
MC190	Ontario_Street	0.35	4.71	0.26	19.00	1	6.31
MC191	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.86
MC192	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	141.11
MC193	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.84
MC194_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	116.00
MC194_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.44
MC195	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	24.80

MC196	Ontario_Street	0.35	4.71	0.26	19.00	1	6.67
MC197	Ontario_Street	0.35	4.71	0.26	19.00	1	8.93
MC198	Ontario_Street	0.35	4.71	0.26	19.00	1	3.94
MC199	Ontario_Street	0.35	4.71	0.26	19.00	1	12.14
MC2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.88
MC20	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	46.41
MC200	Ontario_Street	0.35	4.71	0.26	19.00	1	10.82
MC201	Ontario_Street	0.35	4.71	0.26	19.00	1	14.67
MC202	Ontario_Street	0.35	4.71	0.26	19.00	1	13.83
MC203	Gill_Rd_	1.10	31.42	0.52	44.00	1	67.25
MC204	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.11
MC205	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.57
MC206	Gill_Rd_	1.10	31.42	0.52	44.00	1	87.17
MC207_1	Gill_Rd_	1.10	31.42	0.52	44.00	1	87.05
MC207_3	Gill_Rd_	1.10	31.42	0.52	44.00	1	87.11
MC207_4	Gill_Rd_	1.10	31.42	0.52	44.00	1	87.35
MC208	Gill_Rd	0.35	5.92	0.26	24.00	1	1.70
MC209	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	146.64
MC21	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	359.24
MC210	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	56.51
MC211	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.79
MC212	Main_Street	0.35	4.72	0.24	23.30	1	6.90
MC213	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.67
MC214_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.30
MC214_2	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	5.62
MC215	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	72.39
MC216	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	76.59
MC217	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.59
MC219	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	89.52
MC22	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.62
MC220	Ontario_Street	0.35	4.71	0.26	19.00	1	15.51
MC221	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.63
MC223	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	19.28
MC224	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	193.75
MC225	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	176.50
MC226	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.45
MC227	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.22
MC228	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	26.79
MC229	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.54
MC23	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.59
MC230	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.17

MC231	Main_Street	0.35	4.72	0.24	23.30	1	12.47
MC232	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.17
MC24	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	116.87
MC25	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	95.47
MC26	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	142.86
MC27	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.78
MC28	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.32
MC29	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	161.74
MC3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.62
MC30	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	186.64
MC31	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.80
MC32	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.16
MC33	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.55
MC34	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.05
MC35	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	135.29
MC36	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	19.18
MC37	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	20.40
MC38	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	86.13
MC39	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	67.85
MC4	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.56
MC40	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	44.38
MC41	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.22
MC42	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	183.35
MC43	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.77
MC44	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.79
MC45	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	38.72
MC46	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.25
MC47	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	91.18
MC48	Ontario_Street	0.35	4.71	0.26	19.00	1	7.12
MC49	Ontario_Street	0.35	4.71	0.26	19.00	1	7.88
MC5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.95
MC50	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.69
MC51	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.06
MC52	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	165.44
MC53	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.06
MC54	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	52.79
MC55	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.74
MC56	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	18.56
MC57	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	130.52
MC58	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.08
MC59	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	153.02

MC6	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	18.02
MC62	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	209.79
MC64	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	207.29
MC65	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	104.03
MC66	Main_Street	0.35	4.72	0.24	23.30	1	20.97
MC67	Main_Street	0.35	4.72	0.24	23.30	1	7.89
MC68	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.29
MC69	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	64.72
MC7	Ontario_Street	0.35	4.71	0.26	19.00	1	5.21
MC70	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	180.37
MC71	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.12
MC72	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	229.05
MC73	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.02
MC74	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	55.61
MC75	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.63
MC76	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	101.79
MC77	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.58
MC78	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.23
MC79	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	168.45
MC8	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	155.48
MC80	Ontario_Street	0.35	4.71	0.26	19.00	1	1.50
MC82	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	201.29
MC83	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	159.09
MC84	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	197.98
MC85	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.43
MC86	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	27.71
MC87	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.90
MC89	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.00
MC9	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.18
MC90	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	97.52
MC91	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	51.29
MC92	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.90
MC93	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	117.44
MC97	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	98.01
MC98	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.85
MC99	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	30.33
MJ-C5	TRIANGULAR	0.50	0.60	0.23	2.40	1	0.30
MJ-C6	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	7.81
MJ-C7	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.05
MJ-C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	3.22

****
Transect Summary
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Transect Gill_Rd
Area:

0.0011	0.0044	0.0099	0.0177	0.0276
0.0397	0.0541	0.0706	0.0892	0.1081
0.1270	0.1459	0.1649	0.1838	0.2027
0.2216	0.2405	0.2595	0.2784	0.2973
0.3162	0.3352	0.3545	0.3741	0.3940
0.4143	0.4349	0.4558	0.4771	0.4986
0.5206	0.5428	0.5654	0.5883	0.6116
0.6351	0.6591	0.6833	0.7079	0.7328
0.7580	0.7836	0.8095	0.8357	0.8622
0.8891	0.9164	0.9439	0.9718	1.0000

Hrad:

0.0133	0.0267	0.0400	0.0533	0.0666
0.0800	0.0933	0.1066	0.1256	0.1521
0.1786	0.2050	0.2314	0.2577	0.2840
0.3103	0.3364	0.3626	0.3887	0.4148
0.4408	0.4669	0.4925	0.5175	0.5419
0.5657	0.5890	0.6116	0.6338	0.6554
0.6765	0.6971	0.7173	0.7370	0.7562
0.7750	0.7934	0.8114	0.8290	0.8462
0.8631	0.8796	0.8957	0.9116	0.9271
0.9422	0.9571	0.9717	0.9860	1.0000

Width:

0.0778	0.1556	0.2333	0.3111	0.3889
0.4667	0.5444	0.6222	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6733	0.6850	0.6967	0.7083
0.7200	0.7317	0.7433	0.7550	0.7667
0.7783	0.7900	0.8017	0.8133	0.8250
0.8367	0.8483	0.8600	0.8717	0.8833
0.8950	0.9067	0.9183	0.9300	0.9417
0.9533	0.9650	0.9767	0.9883	1.0000

Transect Gill_Rd_
Area:

0.0021	0.0082	0.0183	0.0295	0.0407
0.0519	0.0632	0.0748	0.0870	0.0999
0.1133	0.1274	0.1421	0.1575	0.1734
0.1899	0.2070	0.2244	0.2423	0.2606
0.2793	0.2984	0.3179	0.3378	0.3582
0.3789	0.4001	0.4216	0.4436	0.4660
0.4888	0.5120	0.5356	0.5596	0.5841
0.6089	0.6342	0.6599	0.6860	0.7125
0.7394	0.7667	0.7944	0.8225	0.8511
0.8801	0.9094	0.9392	0.9694	1.0000

Hrad:

0.0210	0.0420	0.0686	0.1103	0.1517
0.1929	0.2339	0.2732	0.3096	0.3434
0.3747	0.4039	0.4312	0.4567	0.4806
0.5030	0.5249	0.5461	0.5667	0.5868
0.6062	0.6252	0.6435	0.6614	0.6788
0.6957	0.7121	0.7281	0.7438	0.7590
0.7738	0.7882	0.8023	0.8161	0.8296
0.8427	0.8555	0.8681	0.8804	0.8924
0.9041	0.9157	0.9269	0.9380	0.9488
0.9595	0.9699	0.9801	0.9901	1.0000

Width:

0.1333	0.2667	0.3636	0.3636	0.3636
0.3636	0.3673	0.3873	0.4073	0.4273
0.4473	0.4673	0.4873	0.5073	0.5273
0.5467	0.5600	0.5733	0.5867	0.6000
0.6133	0.6267	0.6400	0.6533	0.6667
0.6800	0.6933	0.7067	0.7200	0.7333
0.7467	0.7600	0.7733	0.7867	0.8000
0.8133	0.8267	0.8400	0.8533	0.8667
0.8800	0.8933	0.9067	0.9200	0.9333
0.9467	0.9600	0.9733	0.9867	1.0000

Transect Local_Curb_Simp
Area:

0.0011	0.0043	0.0097	0.0171	0.0261
0.0367	0.0489	0.0624	0.0759	0.0894
0.1030	0.1165	0.1300	0.1436	0.1576
0.1722	0.1874	0.2031	0.2194	0.2362

```
            0.2536     0.2716     0.2901     0.3092     0.3288
            0.3489     0.3697     0.3910     0.4128     0.4352
            0.4582     0.4817     0.5057     0.5304     0.5555
            0.5813     0.6076     0.6344     0.6618     0.6898
            0.7183     0.7474     0.7770     0.8072     0.8379
            0.8692     0.9011     0.9335     0.9665     1.0000
Hrad:
            0.0193     0.0385     0.0578     0.0802     0.1019
            0.1227     0.1431     0.1756     0.2132     0.2506
            0.2878     0.3248     0.3617     0.3985     0.4340
            0.4674     0.4989     0.5286     0.5567     0.5832
            0.6083     0.6320     0.6545     0.6758     0.6961
            0.7153     0.7336     0.7511     0.7678     0.7837
            0.7989     0.8135     0.8274     0.8408     0.8536
            0.8660     0.8778     0.8893     0.9003     0.9109
            0.9211     0.9310     0.9406     0.9499     0.9589
            0.9676     0.9761     0.9843     0.9922     1.0000
Width:
            0.0640     0.1280     0.1920     0.2420     0.2900
            0.3380     0.3860     0.4000     0.4000     0.4000
            0.4000     0.4000     0.4000     0.4075     0.4240
            0.4405     0.4569     0.4734     0.4898     0.5063
            0.5227     0.5392     0.5557     0.5721     0.5886
            0.6050     0.6215     0.6379     0.6544     0.6709
            0.6873     0.7038     0.7202     0.7367     0.7531
            0.7696     0.7861     0.8025     0.8190     0.8354
            0.8519     0.8683     0.8848     0.9013     0.9177
            0.9342     0.9506     0.9671     0.9835     1.0000

Transect Local_NoCurb_Simp
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
```

Hrad:

0.0074	0.0157	0.0237	0.0347	0.0491
0.0667	0.0923	0.1222	0.1524	0.1825
0.2121	0.2415	0.2703	0.2984	0.3259
0.3527	0.3789	0.4045	0.4295	0.4539
0.4777	0.5010	0.5238	0.5461	0.5679
0.5892	0.6101	0.6306	0.6507	0.6704
0.6896	0.7086	0.7272	0.7454	0.7633
0.7809	0.7982	0.8152	0.8320	0.8484
0.8646	0.8806	0.8963	0.9117	0.9270
0.9420	0.9568	0.9714	0.9858	1.0000

Width:

0.1103	0.1522	0.2015	0.2709	0.3409
0.4116	0.4439	0.4583	0.4726	0.4870
0.5012	0.5140	0.5267	0.5395	0.5523
0.5651	0.5779	0.5907	0.6035	0.6163
0.6291	0.6419	0.6547	0.6674	0.6802
0.6930	0.7058	0.7186	0.7314	0.7442
0.7570	0.7698	0.7826	0.7953	0.8081
0.8209	0.8337	0.8465	0.8593	0.8721
0.8849	0.8977	0.9105	0.9233	0.9360
0.9488	0.9616	0.9744	0.9872	1.0000

Transect Main_Street

Area:

0.0011	0.0042	0.0095	0.0170	0.0265
0.0382	0.0519	0.0678	0.0850	0.1029
0.1208	0.1387	0.1566	0.1745	0.1924
0.2103	0.2282	0.2461	0.2640	0.2819
0.2998	0.3177	0.3356	0.3535	0.3714
0.3893	0.4072	0.4251	0.4430	0.4614
0.4806	0.5006	0.5215	0.5431	0.5656
0.5889	0.6130	0.6379	0.6636	0.6901
0.7174	0.7456	0.7746	0.8043	0.8349
0.8663	0.8985	0.9315	0.9654	1.0000

Hrad:

0.0146	0.0292	0.0437	0.0583	0.0729
0.0875	0.1021	0.1185	0.1396	0.1672
0.1961	0.2248	0.2536	0.2822	0.3108
0.3393	0.3678	0.3961	0.4244	0.4527
0.4809	0.5090	0.5370	0.5650	0.5929

```
            0.6208     0.6486     0.6763     0.7040     0.7313
            0.7568     0.7804     0.8025     0.8229     0.8419
            0.8594     0.8756     0.8906     0.9044     0.9171
            0.9288     0.9396     0.9496     0.9587     0.9671
            0.9748     0.9819     0.9885     0.9945     1.0000
Width:
            0.0605     0.1210     0.1814     0.2419     0.3024
            0.3629     0.4233     0.4761     0.5061     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5137     0.5368
            0.5600     0.5831     0.6063     0.6295     0.6526
            0.6758     0.6989     0.7221     0.7453     0.7684
            0.7916     0.8147     0.8379     0.8610     0.8842
            0.9074     0.9305     0.9537     0.9768     1.0000

Transect Ontario_Street
Area:
            0.0008     0.0032     0.0071     0.0127     0.0198
            0.0285     0.0388     0.0507     0.0642     0.0792
            0.0958     0.1141     0.1338     0.1542     0.1746
            0.1949     0.2153     0.2357     0.2560     0.2764
            0.2968     0.3172     0.3379     0.3588     0.3800
            0.4015     0.4233     0.4453     0.4676     0.4902
            0.5131     0.5362     0.5597     0.5834     0.6073
            0.6316     0.6561     0.6809     0.7060     0.7313
            0.7569     0.7829     0.8090     0.8355     0.8622
            0.8892     0.9165     0.9441     0.9719     1.0000
Hrad:
            0.0135     0.0270     0.0405     0.0539     0.0674
            0.0809     0.0944     0.1079     0.1214     0.1349
            0.1484     0.1618     0.1772     0.2040     0.2307
            0.2574     0.2840     0.3105     0.3370     0.3635
            0.3898     0.4163     0.4425     0.4682     0.4934
            0.5182     0.5424     0.5663     0.5897     0.6127
            0.6353     0.6575     0.6794     0.7008     0.7219
            0.7426     0.7630     0.7831     0.8028     0.8222
            0.8413     0.8600     0.8785     0.8967     0.9146
            0.9322     0.9495     0.9666     0.9834     1.0000
Width:
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```
            0.0561     0.1122     0.1682     0.2243     0.2804
            0.3365     0.3926     0.4487     0.5047     0.5608
            0.6169     0.6730     0.7211     0.7211     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7211     0.7266     0.7364     0.7462     0.7559
            0.7657     0.7754     0.7852     0.7950     0.8047
            0.8145     0.8243     0.8340     0.8438     0.8536
            0.8633     0.8731     0.8828     0.8926     0.9024
            0.9121     0.9219     0.9317     0.9414     0.9512
            0.9609     0.9707     0.9805     0.9902     1.0000

Transect Transect1
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
```

```
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000


***********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
***********************************************************

****************
Analysis Options
****************
Flow Units ............... CMS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 03/28/2023 00:00:00
Ending Date .............. 03/29/2023 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:10:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 5.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 8
Head Tolerance ........... 0.001500 m


*************************        Volume         Depth
```

Runoff Quantity Continuity	hectare-m	mm
Initial LID Storage	0.024	0.027
Total Precipitation	53.168	59.544
Evaporation Loss	0.000	0.000
Infiltration Loss	36.433	40.803
Surface Runoff	16.335	18.294
Final Storage	0.531	0.594
Continuity Error (%)	-0.202	

Flow Routing Continuity	Volume hectare-m	Volume 10^6 ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	16.327	163.270
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	15.627	156.275
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.156	1.557
Final Stored Volume	0.887	8.868
Continuity Error (%)	-0.192	

****
Highest Continuity Errors
****
Node MJ105 (41.57%)
Node CBMH4_ON (27.58%)
Node MJ118 (24.62%)
Node MJ52 (22.43%)
Node MJ19 (10.08%)

****
Time-Step Critical Elements
****

```
  Link C702 (56.22%)
  Link C348 (14.95%)
  Link C211 (12.79%)
  Link C668 (2.65%)
  Link C124 (2.63%)


  ********************************
  Highest Flow Instability Indexes
  ********************************
  Link C346 (3)
  Link C347 (1)


  *************************
  Routing Time Step Summary
  *************************
  Minimum Time Step           :     0.50 sec
  Average Time Step           :     2.50 sec
  Maximum Time Step           :     5.00 sec
  Percent in Steady State     :     0.00
  Average Iterations per Step :     2.07
  Percent Not Converging      :     0.13
  Time Step Frequencies       :
      5.000 -  3.155 sec      :    20.34 %
      3.155 -  1.991 sec      :    45.91 %
      1.991 -  1.256 sec      :    18.04 %
      1.256 -  0.792 sec      :    14.97 %
      0.792 -  0.500 sec      :     0.75 %


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------------------
-------------
                             Total      Total      Total      Total     Imperv       Perv      Total       Total
Peak  Runoff
                            Precip      Runon       Evap      Infil     Runoff     Runoff     Runoff      Runoff
Runoff   Coeff
```

Subcatchment	mm	mm	mm	mm	mm	mm	mm	10^6 ltr	CMS
Rural_1	59.54	0.00	0.00	34.87	23.27	0.89	24.16	1.67	1.02	0.406
Rural_10	59.54	0.00	0.00	35.09	23.26	0.66	23.92	7.97	4.66	0.402
Rural_11	59.54	0.00	0.00	34.22	23.24	1.58	24.82	0.12	0.07	0.417
Rural_12	59.54	0.00	0.00	35.09	23.26	0.66	23.92	5.31	3.11	0.402
Rural_13	59.54	0.00	0.00	35.09	23.26	0.66	23.92	5.41	3.17	0.402
Rural_14	59.54	0.00	0.00	35.09	23.26	0.66	23.92	4.07	2.38	0.402
Rural_15	59.54	0.00	0.00	35.09	23.26	0.66	23.92	4.62	2.70	0.402
Rural_16	59.54	0.00	0.00	35.09	23.26	0.66	23.92	6.30	3.68	0.402
Rural_16-2_1	59.54	0.00	0.00	34.87	23.27	0.89	24.16	1.49	0.91	0.406
Rural_16-2_2	59.54	0.00	0.00	34.87	23.27	0.89	24.16	1.79	1.09	0.406
Rural_17	59.54	0.00	0.00	34.22	23.24	1.58	24.82	0.69	0.43	0.417
Rural_17_1	59.54	0.00	0.00	34.22	23.24	1.58	24.82	0.71	0.45	0.417
Rural_17_2	59.54	0.00	0.00	35.09	23.26	0.66	23.92	3.63	2.12	0.402
Rural_17_4	59.54	0.00	0.00	54.68	4.06	0.72	4.78	0.64	0.38	0.080
Rural_18	59.54	0.00	0.00	58.56	0.00	1.01	1.01	0.10	0.05	0.017
Rural_19	59.54	0.00	0.00	58.84	0.00	0.72	0.72	0.41	0.20	0.012
Rural_2	59.54	0.00	0.00	34.87	23.27	0.89	24.16	4.67	2.84	0.406
Rural_20	59.54	0.00	0.00	58.56	0.00	1.01	1.01	0.25	0.12	0.017
Rural_21	59.54	0.00	0.00	58.84	0.00	0.72	0.72	0.70	0.34	0.012
Rural_22	59.54	0.00	0.00	54.68	4.06	0.72	4.78	2.01	1.19	0.080

Rural_23	59.54	0.00	0.00	49.33	9.30	0.70	10.01	5.18
3.16	0.168							
Rural_24	59.54	0.00	0.00	34.81	22.66	1.59	24.25	1.86
1.17	0.407							
Rural_25	59.54	0.00	0.00	51.71	6.97	0.71	7.68	3.06
1.86	0.129							
Rural_26	59.54	0.00	0.00	58.84	0.00	0.72	0.72	0.23
0.11	0.012							
Rural_27	59.54	0.00	0.00	34.87	23.27	0.89	24.16	2.18
1.32	0.406							
Rural_29	59.54	0.00	0.00	35.09	23.26	0.66	23.92	4.07
2.38	0.402							
Rural_3	59.54	0.00	0.00	34.87	23.27	0.89	24.16	1.76
1.07	0.406							
Rural_4	59.54	0.00	0.00	35.09	23.26	0.66	23.92	6.48
3.79	0.402							
Rural_5	59.54	0.00	0.00	34.87	23.27	0.89	24.16	2.72
1.65	0.406							
Rural_6	59.54	0.00	0.00	34.87	23.27	0.89	24.16	3.34
2.03	0.406							
Rural_7	59.54	0.00	0.00	35.09	23.26	0.66	23.92	4.13
2.42	0.402							
Rural_8	59.54	0.00	0.00	35.09	23.26	0.66	23.92	3.05
1.78	0.402							
Rural_9	59.54	0.00	0.00	35.09	23.26	0.66	23.92	5.41
3.16	0.402							
S1	59.54	0.00	0.00	33.14	2.90	23.62	26.52	0.52
0.20	0.445							
S10	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.59
0.33	0.621							
S11	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.21
0.12	0.621							
S12	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.56
0.31	0.621							
S13	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.40
0.22	0.621							
S14	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.13
0.07	0.621							
S15	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.41
0.23	0.621							
S16	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.50
0.28	0.621							
S17_1	59.54	0.00	0.00	24.07	20.36	14.70	35.05	0.89
0.39	0.589							

S17_2	59.54	0.00	0.00	24.07	20.36	14.70	35.05	0.28
0.12	0.589							
S18	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.16
0.09	0.621							
S19	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.17
0.09	0.563							
S2	59.54	0.00	0.00	33.14	2.90	23.62	26.52	0.03
0.01	0.445							
S20_1	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.60
0.34	0.621							
S20_2	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.35
0.20	0.621							
S21	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.11
0.06	0.563							
S22	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.15
0.09	0.621							
S23	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.03
0.02	0.621							
S24	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.02
0.01	0.621							
S25	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.02
0.01	0.621							
S26	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.02
0.01	0.621							
S27	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.12
0.07	0.621							
S28	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.04
0.02	0.621							
S29	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.09
0.05	0.621							
S3	59.54	0.00	0.00	33.14	2.90	23.62	26.52	0.07
0.03	0.445							
S30	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.02
0.01	0.621							
S31	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.02
0.01	0.621							
S32	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.03
0.02	0.621							
S33	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.13
0.07	0.621							
S4	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.16
0.09	0.621							
S5	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.59
0.33	0.621							

S6	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.33
0.19	0.621							
S7	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.34
0.19	0.621							
S8	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.29
0.15	0.563							
S9	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.09
0.05	0.621							
UC1	59.54	0.00	0.00	45.63	11.61	2.11	13.71	0.18
0.11	0.230							
UC10	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.12
0.07	0.734							
UC100	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.04	0.734							
UC11	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.55
0.34	0.734							
UC111	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02
0.02	0.734							
UC112	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.31
0.19	0.734							
UC113	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.26
0.16	0.734							
UC114	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.05	0.734							
UC115	59.54	0.00	0.00	27.66	11.61	20.17	31.77	0.08
0.04	0.534							
UC116	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.25
0.16	0.734							
UC117	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.17
0.11	0.734							
UC118	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.09
0.06	0.734							
UC119	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.14
0.09	0.734							
UC12	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.40
0.25	0.734							
UC120	59.54	0.00	0.00	15.15	31.51	11.60	38.05	0.54
0.39	0.639							
UC121	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.10
0.05	0.563							
UC122	59.54	0.00	0.00	15.08	30.90	11.39	30.52	0.09
0.08	0.513							
UC123	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.04	0.734							

UC124	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.10
0.07	0.734							
UC125	59.54	0.00	0.00	28.15	14.54	16.58	31.12	0.09
0.04	0.523							
UC126	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.04
0.02	0.734							
UC127	59.54	0.00	0.00	14.93	29.58	10.92	14.02	0.06
0.02	0.235							
UC128	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.01
0.01	0.734							
UC129	59.54	0.00	0.00	14.37	24.53	9.14	3.37	0.00
0.00	0.057							
UC13	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.49
0.31	0.734							
UC130	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.05
0.03	0.563							
UC131	59.54	0.00	0.00	14.66	27.18	10.08	3.73	0.00
0.00	0.063							
UC132	59.54	0.00	0.00	14.73	27.81	10.30	3.81	0.00
0.00	0.064							
UC133	59.54	0.00	0.00	27.66	11.61	20.17	31.77	0.08
0.04	0.534							
UC134	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.03
0.02	0.734							
UC135	59.54	0.00	0.00	27.66	11.61	20.17	31.77	0.11
0.06	0.534							
UC136	59.54	0.00	0.00	14.41	24.86	9.26	3.41	0.00
0.00	0.057							
UC137	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.05
0.03	0.563							
UC138	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.07
0.03	0.563							
UC139	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.02
0.01	0.563							
UC14	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.20
0.13	0.734							
UC140	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.04
0.02	0.563							
UC141	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.09
0.05	0.563							
UC142	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.04
0.02	0.563							
UC143	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.20
0.10	0.563							

UC144	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.12
0.06	0.563							
UC145	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.13
0.07	0.563							
UC146	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.15
0.08	0.563							
UC147	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.05
0.03	0.563							
UC148	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.06
0.03	0.563							
UC149	59.54	0.00	0.00	25.85	14.51	19.00	33.51	0.10
0.05	0.563							
UC15	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.09
0.06	0.734							
UC150	59.54	0.00	0.00	45.63	11.61	2.11	13.71	0.09
0.05	0.230							
UC151	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.10
0.06	0.734							
UC152	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.06
0.04	0.734							
UC153	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.21
0.13	0.734							
UC154	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.28
0.18	0.734							
UC155	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.08
0.05	0.734							
UC156	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.24
0.15	0.734							
UC157	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.20
0.13	0.734							
UC159	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.05
0.03	0.734							
UC16	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.22
0.14	0.734							
UC162	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.16
0.10	0.734							
UC163	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.03
0.02	0.734							
UC164	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.15
0.10	0.734							
UC167	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.27
0.17	0.734							
UC168	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.04	0.734							

UC17	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.36
0.22	0.734							
UC173	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.89
0.56	0.734							
UC174	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.67
0.42	0.734							
UC175	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.05
0.03	0.734							
UC176	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.10
0.06	0.734							
UC177	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.36
0.22	0.734							
UC178	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.35
0.22	0.734							
UC179	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.19
0.12	0.734							
UC18	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.30
0.19	0.734							
UC180	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.40
0.88	0.734							
UC181	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.33
0.21	0.734							
UC182	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.48
0.30	0.734							
UC183	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.02
0.64	0.734							
UC184	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.05
0.03	0.734							
UC185	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.05
0.03	0.734							
UC186	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02
0.01	0.734							
UC187	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.06
0.04	0.734							
UC188	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.55
0.34	0.734							
UC189	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.78
0.49	0.734							
UC19	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.32
0.20	0.734							
UC190	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.17
0.11	0.734							
UC191	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.04
0.02	0.734							

UC192	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.04
0.65	0.734							
UC193	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.27
0.17	0.734							
UC194_1	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.26
0.16	0.734							
UC194_3	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.29
0.18	0.734							
UC194_4	59.54	0.00	0.00	18.71	26.14	14.21	40.35	0.19
0.11	0.678							
UC195	59.54	0.00	0.00	18.71	26.14	14.21	40.35	0.46
0.27	0.678							
UC196	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.26
0.17	0.734							
UC197	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.34
0.21	0.734							
UC198_1	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.18
0.12	0.734							
UC198_2	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.15
0.10	0.734							
UC199	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.10
0.06	0.734							
UC2	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.30
0.19	0.734							
UC20	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.40
0.25	0.734							
UC200	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.17
0.11	0.734							
UC201	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.46
0.29	0.734							
UC202	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.38
0.24	0.734							
UC203	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.29
0.18	0.734							
UC204	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.35
0.22	0.734							
UC205	59.54	0.00	0.00	33.14	2.90	23.62	26.52	0.10
0.04	0.445							
UC206	59.54	0.00	0.00	33.14	2.90	23.62	26.52	0.60
0.23	0.445							
UC207	59.54	0.00	0.00	33.14	2.90	23.62	26.52	0.26
0.10	0.445							
UC208	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.25
0.16	0.734							

UC209	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.16
0.10 0.734								
UC21	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.18
0.11 0.734								
UC210	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.68
0.43 0.734								
UC211	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.22
0.77 0.734								
UC212	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.23
0.77 0.734								
UC213	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.95
1.23 0.734								
UC214	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.27
0.17 0.734								
UC215	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.56
0.35 0.734								
UC216	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.87
0.55 0.734								
UC217	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.86
0.54 0.734								
UC218	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.53
0.33 0.734								
UC219	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.06
0.04 0.734								
UC22	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.17
0.11 0.734								
UC220	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.01
0.01 0.734								
UC221	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.06
0.04 0.734								
UC222	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.14
0.09 0.734								
UC223	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.11
0.07 0.734								
UC224	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.16
0.10 0.734								
UC225	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.32
0.20 0.734								
UC229	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.01
0.01 0.734								
UC23	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.15
0.09 0.734								
UC24	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.15
0.09 0.734								

UC25	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.14
0.09	0.734							
UC26	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.08
0.05	0.734							
UC27	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.04	0.734							
UC28	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.10
0.06	0.734							
UC29	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.11
0.07	0.734							
UC3	59.54	0.00	0.00	15.07	30.79	11.35	29.18	0.05
0.04	0.490							
UC30	59.54	0.00	0.00	27.66	11.61	20.17	31.77	0.02
0.01	0.534							
UC300	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.66
0.42	0.734							
UC301	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.91
1.20	0.734							
UC302	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.21
0.13	0.734							
UC303	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.24
0.15	0.734							
UC304	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.93
0.59	0.734							
UC305	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.94
0.59	0.734							
UC306	59.54	0.00	0.00	33.14	2.90	23.62	26.52	0.18
0.07	0.445							
UC307	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.22
0.14	0.734							
UC308	59.54	0.00	0.00	16.31	31.97	10.55	42.52	1.16
0.58	0.714							
UC309	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.20
0.13	0.734							
UC31	59.54	0.00	0.00	45.63	11.61	2.11	13.71	0.05
0.03	0.230							
UC310	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.31
0.20	0.734							
UC311	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.96
1.23	0.734							
UC312	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.73
0.46	0.734							
UC313_2	59.54	11.52	0.00	35.87	3.48	35.34	35.34	0.94
0.35	0.497							

UC313_3	59.54	0.00	0.00	33.14	2.90	23.62	26.52	0.50
0.19	0.445							
UC313_4	59.54	0.00	0.00	22.26	20.32	16.63	36.95	0.31
0.17	0.621							
UC314	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.10
0.06	0.734							
UC315	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.41
0.26	0.734							
UC316	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.28
0.18	0.734							
UC317	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.26
0.16	0.734							
UC318	59.54	0.00	0.00	45.63	11.61	2.11	13.71	0.09
0.05	0.230							
UC319	59.54	0.00	0.00	15.20	31.96	11.76	43.72	1.03
0.64	0.734							
UC32	59.54	0.00	0.00	45.63	11.61	2.11	13.71	0.02
0.01	0.230							
UC33	59.54	0.00	0.00	45.63	11.61	2.11	13.71	0.11
0.07	0.230							
UC34	59.54	0.00	0.00	27.66	11.61	20.17	31.77	0.20
0.10	0.534							
UC35	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02
0.02	0.734							
UC36	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02
0.01	0.734							
UC37	59.54	0.00	0.00	27.66	11.61	20.17	31.77	0.03
0.02	0.534							
UC38	59.54	0.00	0.00	27.66	11.61	20.17	31.77	0.13
0.06	0.534							
UC39	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.06
0.04	0.734							
UC4	59.54	0.00	0.00	15.06	30.68	11.31	27.74	0.11
0.07	0.466							
UC40	59.54	0.00	0.00	14.88	29.13	10.77	9.40	0.01
0.00	0.158							
UC41	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02
0.01	0.734							
UC42	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.04
0.02	0.734							
UC43	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.03
0.02	0.734							
UC44	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.03
0.02	0.734							

UC45		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.05	0.734								
UC46		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.06
0.04	0.734								
UC47		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.04	0.734								
UC48		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.08
0.05	0.734								
UC49		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.18
0.11	0.734								
UC5		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.22
0.14	0.734								
UC50		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.13
0.08	0.734								
UC51		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.28
0.17	0.734								
UC52		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.25
0.16	0.734								
UC53		59.54	0.00	0.00	22.58	31.15	35.22	26.84	0.21
0.20	0.451								
UC54		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.34
0.21	0.734								
UC55		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.31
0.19	0.734								
UC56		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.18
0.11	0.734								
UC57		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.15
0.10	0.734								
UC58		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.13
0.08	0.734								
UC59		59.54	0.00	0.00	14.89	29.17	10.78	9.30	0.02
0.01	0.156								
UC6		59.54	0.00	0.00	15.03	30.48	11.24	25.28	0.05
0.03	0.425								
UC60		59.54	0.00	0.00	14.93	29.51	10.90	13.39	0.02
0.01	0.225								
UC61		59.54	0.00	0.00	27.66	11.61	20.17	31.77	0.11
0.06	0.534								
UC62		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.30
0.19	0.734								
UC63		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.03
0.02	0.734								
UC64		59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02
0.01	0.734								

UC65	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.06	0.04	0.734
UC66	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.03	0.02	0.734
UC67	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.00	0.00	0.734
UC68	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.10	0.06	0.734
UC69	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02	0.01	0.734
UC7	59.54	0.00	0.00	15.06	30.68	11.31	27.76	0.08	0.06	0.466
UC70	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02	0.02	0.734
UC71	59.54	0.00	0.00	33.63	2.90	23.10	26.00	0.21	0.07	0.437
UC72	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02	0.02	0.734
UC73	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.16	0.10	0.734
UC74	59.54	0.00	0.00	33.66	2.90	23.06	25.96	4.14	1.37	0.436
UC75	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.09	0.06	0.734
UC76	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.14	0.09	0.734
UC77	59.54	0.00	0.00	15.07	30.76	11.34	28.82	0.08	0.06	0.484
UC78	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.17	0.11	0.734
UC79	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02	0.02	0.734
UC8	59.54	0.00	0.00	14.96	29.80	11.00	16.85	0.08	0.02	0.283
UC80	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.01	0.01	0.734
UC81	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.11	0.07	0.734
UC82	59.54	0.00	0.00	15.09	30.97	11.41	31.38	0.14	0.13	0.527
UC83	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.08	0.05	0.734
UC84	59.54	0.00	0.00	45.63	11.61	2.11	13.71	0.15	0.10	0.230

UC85	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.18
0.11	0.734							
UC86	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.14
0.09	0.734							
UC87	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.06
0.04	0.734							
UC88	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.04	0.734							
UC89	59.54	0.00	0.00	15.00	30.18	11.13	21.51	0.08
0.03	0.361							
UC9	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.21
0.13	0.734							
UC90	59.54	0.00	0.00	14.90	29.26	10.81	10.32	0.01
0.01	0.173							
UC91	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.02
0.01	0.734							
UC92	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.04
0.02	0.734							
UC93	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.09
0.06	0.734							
UC94	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.07
0.05	0.734							
UC95	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.04
0.03	0.734							
UC96	59.54	0.00	0.00	14.95	29.69	10.96	15.53	0.04
0.01	0.261							
UC97	59.54	0.00	0.00	15.04	30.57	11.27	26.54	0.04
0.03	0.446							
UC98	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.10
0.06	0.734							
UC99	59.54	0.00	0.00	15.20	31.96	11.76	43.72	0.15
0.09	0.734							

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LID Performance Summary
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	Total Inflow	Evap Loss	Infil Loss	Surface Outflow	Drain Outflow	Initial Storage	Final Storage	Continuity Error

Subcatchment	LID Control	mm	mm	mm	mm	mm	mm	mm	%
UC120	Bioretention_Facility	2826.16	0.00	12.00	2405.61	0.00	76.86	485.44	-0.00
UC122	Bioretention_Facility	1207.95	0.00	12.00	793.36	0.00	76.86	479.46	-0.00
UC127	Bioretention_Facility	549.10	0.00	12.00	133.85	0.00	76.86	480.12	-0.00
UC129	Bioretention_Facility	190.16	0.00	12.00	0.00	0.00	76.86	255.05	-0.02
UC131	Bioretention_Facility	284.31	0.00	12.00	0.00	0.00	76.86	349.09	0.02
UC132	Bioretention_Facility	323.87	0.00	12.00	0.00	0.00	76.86	388.64	0.02
UC136	Bioretention_Facility	197.92	0.00	12.00	0.00	0.00	76.86	262.78	0.00
UC3	Bioretention_Facility	1095.17	0.00	12.00	681.75	0.00	76.86	478.29	-0.00
UC4	Bioretention_Facility	1002.87	0.00	12.00	587.59	0.00	76.86	480.15	-0.00
UC40	Bioretention_Facility	465.72	0.00	12.00	61.17	0.00	76.86	469.27	0.03
UC53	Bioretention_Facility	1316.82	0.00	12.00	924.93	0.00	76.86	456.76	-0.00
UC59	Bioretention_Facility	472.53	0.00	12.00	60.97	0.00	76.86	476.28	0.02
UC6	Bioretention_Facility	869.19	0.00	12.00	455.31	0.00	76.86	478.74	-0.00
UC60	Bioretention_Facility	535.74	0.00	12.00	122.45	0.00	76.86	478.15	-0.00
UC7	Bioretention_Facility	1002.51	0.00	12.00	587.94	0.00	76.86	479.43	-0.00
UC77	Bioretention_Facility	1071.75	0.00	12.00	657.43	0.00	76.86	479.18	-0.00
UC8	Bioretention_Facility	605.23	0.00	12.00	189.69	0.00	76.86	480.42	-0.00
UC82	Bioretention_Facility	1294.70	0.00	12.00	879.05	0.00	76.86	480.53	-0.00
UC89	Bioretention_Facility	726.93	0.00	12.00	311.96	0.00	76.86	479.84	-0.00
UC90	Bioretention_Facility	486.45	0.00	12.00	74.76	0.00	76.86	476.42	0.02

UC96	Bioretention_Facility	575.62	0.00	12.00	161.70	0.00	76.86	478.78
-0.00								
UC97	Bioretention_Facility	929.52	0.00	12.00	516.36	0.00	76.86	478.03
-0.00								

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Node Depth Summary
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Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
4390544795870	JUNCTION	0.01	0.06	183.62	0 09:18	0.06
4390824795850	JUNCTION	0.16	0.24	183.58	0 10:16	0.24
4391014795950	JUNCTION	0.02	0.10	183.84	0 09:12	0.10
4391194795830	JUNCTION	0.01	0.05	183.60	0 09:13	0.04
4391304795930	JUNCTION	0.01	0.05	184.08	0 09:07	0.05
4391504795920	JUNCTION	0.00	0.03	184.18	0 09:06	0.03
4391544795810	JUNCTION	0.01	0.05	183.00	0 09:13	0.05
4391664795910	JUNCTION	0.01	0.08	184.14	0 09:10	0.08
4391884795900	JUNCTION	0.00	0.04	184.17	0 09:07	0.03
4392024795890	JUNCTION	0.01	0.07	184.16	0 09:07	0.07
4393014795360	JUNCTION	0.01	0.06	186.00	0 09:11	0.06
4393464795440	JUNCTION	0.01	0.07	186.18	0 09:06	0.06
4394414795760	JUNCTION	0.00	0.03	185.68	0 09:08	0.03
4394754795460	JUNCTION	0.02	0.07	186.30	0 09:05	0.07
4394784795740	JUNCTION	0.01	0.11	184.81	0 09:24	0.10
4395014795520	JUNCTION	0.04	0.15	185.82	0 09:10	0.15
4395024795240	JUNCTION	0.02	0.06	186.27	0 09:09	0.06
4395174795720	JUNCTION	0.01	0.06	186.39	0 09:21	0.06
4395694795410	JUNCTION	0.01	0.06	187.09	0 09:05	0.05
4396134795480	JUNCTION	0.02	0.13	186.40	0 09:09	0.13
4396584795550	JUNCTION	0.01	0.06	187.09	0 09:06	0.06
4396744795620	JUNCTION	0.02	0.13	187.24	0 09:17	0.13
CB15	JUNCTION	0.04	0.45	182.15	0 09:05	0.25
CB16	JUNCTION	0.00	0.00	181.95	0 00:00	0.00
CB17	JUNCTION	0.02	0.18	180.45	0 09:05	0.13
CB18	JUNCTION	0.00	0.00	181.40	0 00:00	0.00
CB19	JUNCTION	0.02	0.63	182.23	0 09:05	0.12

CB20	JUNCTION	0.04	0.79	182.13	0	09:05	0.26
CB21	JUNCTION	0.00	0.00	180.51	0	00:00	0.00
CB22	JUNCTION	0.00	0.00	181.20	0	00:00	0.00
CB23	JUNCTION	0.01	0.10	181.55	0	09:05	0.07
CB26	JUNCTION	0.02	0.17	179.52	0	09:12	0.16
CB27	JUNCTION	0.00	0.00	182.57	0	00:00	0.00
CB29	JUNCTION	0.00	0.00	185.26	0	00:00	0.00
CB30	JUNCTION	0.00	0.00	185.15	0	00:00	0.00
CB30_1	JUNCTION	0.00	0.00	183.93	0	00:00	0.00
CB31	JUNCTION	0.01	0.08	183.57	0	09:55	0.07
CB32	JUNCTION	0.02	0.15	183.57	0	09:55	0.14
CB33	JUNCTION	0.08	0.23	183.57	0	09:55	0.22
CB34	JUNCTION	0.00	0.00	184.40	0	00:00	0.00
CB35	JUNCTION	0.00	0.00	184.20	0	00:00	0.00
CB41	JUNCTION	0.00	0.00	181.77	0	00:00	0.00
CB42	JUNCTION	0.00	0.02	181.17	0	10:04	0.01
CB-58	JUNCTION	0.12	0.70	181.13	0	09:21	0.69
CBMH_1	JUNCTION	0.03	0.10	181.63	0	09:19	0.10
CBMH_40	JUNCTION	0.00	0.00	182.75	0	00:00	0.00
CBMH_41	JUNCTION	0.00	0.00	182.52	0	00:00	0.00
CBMH_42	JUNCTION	0.00	0.00	182.82	0	00:00	0.00
CBMH_44	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
CBMH_46	JUNCTION	0.06	0.32	182.32	0	10:49	0.32
CBMH_62	JUNCTION	0.06	0.26	182.89	0	09:24	0.26
CBMH_9	JUNCTION	0.00	0.00	183.50	0	00:00	0.00
CBMH1	JUNCTION	0.00	0.05	182.60	0	09:10	0.05
CBMH1_ON	JUNCTION	0.00	0.00	184.86	0	00:00	0.00
CBMH10_Main	JUNCTION	0.03	0.09	179.50	0	09:09	0.09
CBMH2	JUNCTION	0.02	0.05	180.78	0	09:05	0.04
CBMH2_ON	JUNCTION	0.00	0.00	184.54	0	00:00	0.00
CBMH3_ON	JUNCTION	0.00	0.00	184.25	0	00:00	0.00
CBMH4_ON	JUNCTION	0.12	0.25	184.24	0	09:08	0.24
CBMH5	JUNCTION	0.04	0.15	179.95	0	09:08	0.15
CBMH5_ON	JUNCTION	0.06	0.19	184.24	0	09:09	0.18
CBMH6_ON	JUNCTION	0.06	0.17	184.06	0	09:10	0.17
CBMH7	JUNCTION	0.00	0.00	182.38	0	00:00	0.00
CBMH7_ON	JUNCTION	0.04	0.13	183.84	0	09:11	0.13
CBMH8_ON	JUNCTION	0.05	0.20	183.46	0	09:09	0.20
CBMH9_ON	JUNCTION	0.02	0.07	182.80	0	09:09	0.07
DCB72	JUNCTION	0.00	0.00	180.43	0	00:00	0.00
DICBMH42	JUNCTION	0.70	1.01	177.66	0	10:08	1.01

J1	JUNCTION	0.07	0.33	183.48	0	09:13	0.32
J10	JUNCTION	0.01	0.10	182.64	0	09:20	0.10
J101	JUNCTION	0.08	0.86	181.63	0	09:13	0.52
J102	JUNCTION	0.53	0.76	180.76	0	09:23	0.76
J105	JUNCTION	0.00	0.00	183.98	0	00:00	0.00
J106	JUNCTION	0.02	0.32	183.94	0	09:22	0.32
J110	JUNCTION	0.06	0.87	181.69	0	09:13	0.47
J113	JUNCTION	0.04	0.84	181.76	0	09:13	0.37
J115	JUNCTION	0.00	0.00	183.07	0	00:00	0.00
J116	JUNCTION	0.00	0.00	176.45	0	00:00	0.00
J12	JUNCTION	0.02	0.05	183.38	0	09:08	0.05
J125	JUNCTION	0.05	0.19	179.34	0	09:18	0.19
J127	JUNCTION	0.03	0.17	180.88	0	09:08	0.16
J128	JUNCTION	0.05	0.22	181.14	0	09:10	0.22
J15	JUNCTION	0.02	0.07	180.77	0	09:09	0.07
J2	JUNCTION	0.02	0.13	183.00	0	09:11	0.13
J20	JUNCTION	0.02	0.07	179.58	0	09:10	0.06
J24	JUNCTION	0.08	0.35	178.11	0	09:13	0.34
J3	JUNCTION	0.03	0.21	181.79	0	09:20	0.21
J30	JUNCTION	0.00	0.00	186.43	0	00:00	0.00
J31	JUNCTION	0.00	0.00	185.91	0	00:00	0.00
J34	JUNCTION	0.00	0.00	181.75	0	00:00	0.00
J35	JUNCTION	0.00	0.00	181.98	0	00:00	0.00
J36	JUNCTION	0.00	0.00	179.96	0	00:00	0.00
J38	JUNCTION	0.01	0.11	180.11	0	09:05	0.08
J4	JUNCTION	0.00	0.00	185.20	0	00:00	0.00
J42	JUNCTION	0.00	0.00	179.01	0	00:00	0.00
J43	JUNCTION	0.00	0.00	178.80	0	00:00	0.00
J47	JUNCTION	0.00	0.00	179.99	0	00:00	0.00
J48	JUNCTION	0.00	0.00	180.60	0	00:00	0.00
J49	JUNCTION	0.00	0.02	180.94	0	09:59	0.01
J5	JUNCTION	0.02	0.06	184.91	0	09:08	0.06
J50	JUNCTION	0.00	0.00	178.47	0	00:00	0.00
J52	JUNCTION	0.11	0.44	179.12	0	09:12	0.44
J55	JUNCTION	0.10	0.41	178.91	0	09:13	0.41
J6	JUNCTION	0.01	0.08	181.31	0	09:22	0.08
J62	JUNCTION	0.10	0.40	178.77	0	09:13	0.40
J66	JUNCTION	0.00	0.00	176.80	0	00:00	0.00
J67	JUNCTION	0.00	0.00	176.71	0	00:00	0.00
J7	JUNCTION	0.04	0.20	182.59	0	09:17	0.20
J70	JUNCTION	0.05	0.19	176.11	0	09:09	0.19

J78	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J8	JUNCTION	0.02	0.13	184.52	0	09:19	0.13
J83	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J9	JUNCTION	0.02	0.09	182.82	0	09:11	0.09
J91	JUNCTION	0.07	0.26	178.63	0	09:18	0.26
J93	JUNCTION	0.03	0.09	182.24	0	09:14	0.08
J95	JUNCTION	0.02	0.08	182.46	0	09:13	0.07
J98	JUNCTION	0.03	0.14	181.32	0	09:23	0.14
MH_1	JUNCTION	0.02	0.07	181.31	0	09:20	0.07
MH_10	JUNCTION	0.02	0.05	183.31	0	09:22	0.05
MH_11	JUNCTION	0.02	0.06	183.18	0	09:23	0.06
MH_12	JUNCTION	0.02	0.07	185.31	0	09:07	0.06
MH_13	JUNCTION	0.02	0.08	184.17	0	09:07	0.07
MH_14	JUNCTION	0.03	0.07	183.82	0	09:09	0.07
MH_15	JUNCTION	0.04	0.16	182.90	0	09:10	0.16
MH_16	JUNCTION	0.04	0.18	182.77	0	09:11	0.18
MH_17	JUNCTION	0.05	0.17	182.32	0	10:47	0.17
MH_18	JUNCTION	0.02	0.08	184.60	0	09:06	0.07
MH_19	JUNCTION	0.02	0.06	185.23	0	09:05	0.06
MH_2	JUNCTION	0.02	0.08	180.68	0	09:20	0.08
MH_20	JUNCTION	0.02	0.06	184.99	0	09:06	0.06
MH_21	JUNCTION	0.02	0.06	184.59	0	09:07	0.06
MH_22	JUNCTION	0.03	0.08	184.08	0	09:07	0.08
MH_23	JUNCTION	0.50	0.58	183.85	0	09:08	0.57
MH_24	JUNCTION	0.00	0.00	184.50	0	00:00	0.00
MH_25	JUNCTION	0.00	0.00	184.00	0	00:00	0.00
MH_26	JUNCTION	0.02	0.05	183.33	0	09:09	0.05
MH_27	JUNCTION	0.03	0.07	183.15	0	09:09	0.07
MH_29	JUNCTION	0.00	0.00	183.90	0	00:00	0.00
MH_30	JUNCTION	0.00	0.00	183.08	0	00:00	0.00
MH_34	JUNCTION	0.03	0.10	183.24	0	09:07	0.09
MH_35	JUNCTION	0.03	0.11	182.84	0	09:07	0.10
MH_36	JUNCTION	0.03	0.11	182.74	0	09:08	0.10
MH_37	JUNCTION	0.06	0.22	182.47	0	09:10	0.22
MH_38	JUNCTION	0.10	0.29	182.32	0	10:46	0.29
MH_39	JUNCTION	0.29	0.64	182.32	0	10:46	0.64
MH_43	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MH_45	JUNCTION	0.02	0.18	182.32	0	10:46	0.18
MH_47	JUNCTION	0.37	0.76	182.32	0	10:49	0.76
MH_56	JUNCTION	0.07	0.14	183.31	0	09:20	0.14
MH_57	JUNCTION	0.06	0.13	182.97	0	09:21	0.13

MH_58	JUNCTION	0.07	0.14	182.82	0	09:22	0.14
MH_59	JUNCTION	0.07	0.50	183.94	0	09:22	0.50
MH_61	JUNCTION	0.06	0.27	183.44	0	09:23	0.27
MH_63	JUNCTION	0.10	0.33	182.78	0	09:24	0.33
MH_64	JUNCTION	0.09	0.33	182.53	0	09:25	0.33
MH_65	JUNCTION	0.17	0.45	182.32	0	10:46	0.45
MH_66	JUNCTION	0.19	0.50	182.32	0	10:49	0.50
MH_67	JUNCTION	0.53	0.99	182.31	0	10:50	0.99
MH_68	JUNCTION	0.67	1.19	182.31	0	10:51	1.19
MH_69	JUNCTION	0.13	0.29	180.55	0	10:52	0.29
MH_70	JUNCTION	0.13	0.28	179.95	0	10:52	0.28
MH1	JUNCTION	0.02	0.37	181.48	0	09:11	0.36
MH1_Main	JUNCTION	0.03	0.07	183.92	0	09:07	0.07
MH10	JUNCTION	0.27	0.88	180.38	0	09:08	0.85
MH10__S	JUNCTION	0.00	0.00	183.15	0	09:17	0.00
MH10_Main	JUNCTION	0.11	0.27	177.05	0	10:01	0.27
MH11	JUNCTION	0.17	0.89	180.19	0	09:08	0.86
MH11__S	JUNCTION	0.11	0.38	183.15	0	09:17	0.37
MH11_Main	JUNCTION	0.07	0.17	176.51	0	10:01	0.16
MH12	JUNCTION	0.02	0.19	181.39	0	09:05	0.13
MH13	JUNCTION	0.25	0.85	179.65	0	09:08	0.83
MH13_Main	JUNCTION	0.03	0.14	181.40	0	09:10	0.14
MH13_Main_	JUNCTION	0.04	0.19	180.94	0	09:58	0.19
MH14	JUNCTION	0.11	0.71	179.06	0	09:08	0.70
MH14_Main	JUNCTION	0.07	0.39	180.94	0	09:58	0.39
MH15	JUNCTION	0.11	0.70	178.90	0	09:09	0.69
MH15_Main	JUNCTION	0.07	0.45	180.94	0	09:58	0.44
MH16	JUNCTION	0.10	0.62	178.62	0	09:09	0.61
MH2	JUNCTION	0.07	0.48	181.48	0	09:11	0.47
MH2_Main	JUNCTION	0.07	0.22	183.57	0	09:55	0.21
MH2_S	JUNCTION	0.02	0.25	184.20	0	09:11	0.25
MH21	JUNCTION	0.06	0.30	181.42	0	09:14	0.28
MH21_S	JUNCTION	0.02	0.09	182.89	0	09:11	0.09
MH22	JUNCTION	0.17	0.69	181.38	0	09:20	0.68
MH23	JUNCTION	0.09	0.60	181.36	0	09:20	0.60
MH24	JUNCTION	0.12	0.72	181.31	0	09:21	0.71
MH25	JUNCTION	0.10	0.55	180.65	0	09:22	0.54
MH25-1	JUNCTION	0.12	0.62	180.88	0	09:22	0.61
MH26	JUNCTION	0.06	0.28	180.04	0	09:22	0.28
MH3	JUNCTION	0.07	0.43	181.35	0	09:11	0.43
MH3_Main	JUNCTION	0.08	0.22	183.04	0	09:55	0.21

MH3_S	JUNCTION	0.01	0.09	184.20	0	09:09	0.09
MH30	JUNCTION	0.06	0.24	179.67	0	09:24	0.24
MH31	JUNCTION	0.06	0.25	179.57	0	09:25	0.24
MH32	JUNCTION	0.06	0.28	179.49	0	09:14	0.28
MH33	JUNCTION	0.11	0.33	179.45	0	09:15	0.33
MH34	JUNCTION	0.04	0.16	179.22	0	09:05	0.15
MH34_S	JUNCTION	0.01	0.08	181.56	0	09:05	0.08
MH35	JUNCTION	0.04	0.17	179.11	0	09:06	0.16
MH36	JUNCTION	0.04	0.17	179.00	0	09:12	0.16
MH36_S	JUNCTION	0.01	0.08	182.05	0	09:14	0.07
MH37	JUNCTION	0.00	0.00	179.80	0	00:00	0.00
MH37_S	JUNCTION	0.00	0.00	182.34	0	00:00	0.00
MH38	JUNCTION	0.00	0.00	179.55	0	00:00	0.00
MH39	JUNCTION	0.00	0.02	179.44	0	09:20	0.02
MH4	JUNCTION	0.07	0.41	181.11	0	09:09	0.41
MH4_Main	JUNCTION	0.08	0.22	181.88	0	09:56	0.21
MH40	JUNCTION	0.07	0.36	179.19	0	09:12	0.35
MH41	JUNCTION	0.06	0.30	178.98	0	09:12	0.29
MH41_S	JUNCTION	0.10	0.20	182.06	0	09:12	0.20
MH42	JUNCTION	0.08	0.20	177.65	0	10:08	0.20
MH43	JUNCTION	0.08	0.20	177.49	0	10:09	0.20
MH5	JUNCTION	0.04	0.29	182.74	0	09:08	0.28
MH5_Main	JUNCTION	0.11	0.42	181.17	0	10:04	0.41
MH6	JUNCTION	0.03	0.28	182.60	0	09:09	0.28
MH6_Main	JUNCTION	0.24	0.69	180.93	0	09:58	0.69
MH7	JUNCTION	0.03	0.29	182.39	0	09:11	0.29
MH7_Main	JUNCTION	0.06	0.16	180.41	0	09:59	0.16
MH8	JUNCTION	0.07	0.45	180.96	0	09:09	0.44
MH8_Main	JUNCTION	0.32	0.51	178.07	0	10:05	0.51
MH8_S	JUNCTION	0.01	0.07	184.03	0	09:07	0.07
MH9	JUNCTION	0.07	0.50	180.77	0	09:08	0.49
MH9__S	JUNCTION	0.01	0.22	183.44	0	09:07	0.18
MH9_Main	JUNCTION	0.11	0.29	177.90	0	10:01	0.29
MJ_	JUNCTION	0.00	0.00	182.63	0	00:00	0.00
MJ1	JUNCTION	0.04	0.16	177.63	0	09:23	0.16
MJ10	JUNCTION	0.00	0.03	183.53	0	09:07	0.03
MJ100	JUNCTION	0.02	0.12	182.38	0	09:07	0.11
MJ101	JUNCTION	0.01	0.09	183.78	0	09:06	0.08
MJ102	JUNCTION	0.18	0.27	183.13	1	00:00	0.27
MJ103	JUNCTION	0.02	0.08	183.08	0	09:06	0.07
MJ104	JUNCTION	0.01	0.06	184.26	0	09:13	0.06

MJ105	JUNCTION	0.33	0.48	184.95	0	09:54	0.48
MJ106	JUNCTION	0.00	0.00	183.57	0	00:00	0.00
MJ107	JUNCTION	0.01	0.08	184.24	0	09:19	0.07
MJ108	JUNCTION	0.01	0.05	185.72	0	09:07	0.05
MJ109	JUNCTION	0.00	0.00	184.90	0	00:00	0.00
MJ11	JUNCTION	0.00	0.00	178.72	0	00:00	0.00
MJ110	JUNCTION	0.10	0.18	182.21	0	09:08	0.18
MJ111	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MJ112	JUNCTION	0.02	0.10	180.73	0	09:24	0.10
MJ113	JUNCTION	0.00	0.03	184.26	0	09:13	0.02
MJ114	JUNCTION	0.00	0.02	184.56	0	09:13	0.02
MJ115	JUNCTION	0.01	0.05	185.47	0	09:06	0.05
MJ116	JUNCTION	0.02	0.11	182.09	0	09:07	0.11
MJ117	JUNCTION	0.00	0.01	185.55	0	09:09	0.01
MJ118	JUNCTION	0.15	0.25	184.95	0	09:58	0.25
MJ119	JUNCTION	0.01	0.09	180.30	0	09:14	0.08
MJ12	JUNCTION	0.03	0.12	179.13	0	09:06	0.12
MJ120	JUNCTION	0.20	0.29	184.22	1	00:00	0.29
MJ121	JUNCTION	0.01	0.09	186.75	0	09:05	0.08
MJ122	JUNCTION	0.02	0.09	184.34	0	09:07	0.09
MJ123	JUNCTION	0.00	0.00	187.14	0	00:00	0.00
MJ124	JUNCTION	0.04	0.16	180.53	0	09:12	0.15
MJ125	JUNCTION	0.01	0.07	186.18	0	09:06	0.07
MJ126	JUNCTION	0.00	0.00	185.15	0	00:00	0.00
MJ127	JUNCTION	0.01	0.06	185.92	0	09:06	0.05
MJ128	JUNCTION	0.02	0.10	182.19	0	09:08	0.10
MJ129	JUNCTION	0.05	0.25	182.03	0	09:23	0.25
MJ13	JUNCTION	0.01	0.08	178.68	0	09:07	0.08
MJ130	JUNCTION	0.02	0.12	186.19	0	09:07	0.12
MJ131	JUNCTION	0.01	0.04	184.29	0	09:05	0.04
MJ132	JUNCTION	0.04	0.29	182.03	0	09:23	0.29
MJ133	JUNCTION	0.00	0.00	186.56	0	00:00	0.00
MJ134	JUNCTION	0.05	0.23	181.62	0	09:36	0.23
MJ135	JUNCTION	0.01	0.07	183.32	0	09:10	0.07
MJ136	JUNCTION	0.01	0.04	183.40	0	09:08	0.04
MJ137	JUNCTION	0.03	0.15	182.58	0	09:07	0.14
MJ138	JUNCTION	0.00	0.00	187.83	0	00:00	0.00
MJ139	JUNCTION	0.01	0.06	181.99	0	09:05	0.04
MJ14	JUNCTION	0.01	0.06	181.55	0	09:08	0.06
MJ140	JUNCTION	0.00	0.00	182.18	0	09:15	0.00
MJ142	JUNCTION	0.01	0.10	182.72	0	09:12	0.09

MJ143	JUNCTION	0.00	0.04	184.20	0	09:06	0.04
MJ144	JUNCTION	0.01	0.03	182.88	0	09:09	0.03
MJ145	JUNCTION	0.02	0.10	182.63	0	09:24	0.10
MJ146	JUNCTION	0.03	0.27	182.63	0	09:22	0.27
MJ147	JUNCTION	0.02	0.09	183.10	0	09:12	0.09
MJ148	JUNCTION	0.03	0.14	183.15	0	09:11	0.14
MJ149	JUNCTION	0.01	0.20	184.20	0	09:11	0.20
MJ15	JUNCTION	0.01	0.06	188.59	0	09:08	0.06
MJ150	JUNCTION	0.00	0.00	184.44	0	00:00	0.00
MJ151	JUNCTION	0.02	0.13	183.51	0	09:07	0.13
MJ152	JUNCTION	0.02	0.11	183.81	0	09:20	0.11
MJ153	JUNCTION	0.01	0.09	184.41	0	09:22	0.09
MJ154	JUNCTION	0.05	0.25	184.72	0	09:18	0.25
MJ155	JUNCTION	0.04	0.17	185.35	0	09:12	0.17
MJ156	JUNCTION	0.01	0.09	185.94	0	09:10	0.09
MJ158	JUNCTION	0.00	0.00	183.48	0	00:00	0.00
MJ16	JUNCTION	0.00	0.02	178.67	0	09:18	0.02
MJ17	JUNCTION	0.01	0.04	181.87	0	09:06	0.03
MJ18	JUNCTION	0.02	0.08	183.44	0	09:11	0.08
MJ19	JUNCTION	0.09	0.15	181.14	0	09:07	0.15
MJ2	JUNCTION	0.01	0.08	177.83	0	09:11	0.08
MJ20	JUNCTION	0.01	0.04	183.32	0	09:09	0.04
MJ21	JUNCTION	0.01	0.08	179.00	0	09:08	0.08
MJ22	JUNCTION	0.05	0.18	186.34	0	09:07	0.17
MJ23	JUNCTION	0.01	0.04	179.31	0	09:06	0.04
MJ24	JUNCTION	0.06	0.38	182.19	0	09:27	0.38
MJ25	JUNCTION	0.02	0.11	183.56	0	09:08	0.11
MJ26	JUNCTION	0.02	0.10	182.98	0	09:11	0.10
MJ27	JUNCTION	0.03	0.12	179.94	0	09:25	0.12
MJ28	JUNCTION	0.00	0.00	183.09	0	00:00	0.00
MJ29	JUNCTION	0.19	0.28	181.32	1	00:00	0.28
MJ3	JUNCTION	0.04	0.14	177.53	0	09:09	0.14
MJ30	JUNCTION	0.02	0.11	181.46	0	09:10	0.11
MJ31	JUNCTION	0.01	0.07	181.14	0	09:11	0.07
MJ32	JUNCTION	0.01	0.05	181.99	0	09:09	0.05
MJ33	JUNCTION	0.01	0.05	181.74	0	09:15	0.05
MJ34	JUNCTION	0.01	0.05	179.75	0	09:06	0.05
MJ35	JUNCTION	0.04	0.15	180.31	0	09:24	0.15
MJ36	JUNCTION	0.03	0.14	182.81	0	09:09	0.14
MJ37	JUNCTION	0.01	0.04	178.68	0	09:14	0.04
MJ38	JUNCTION	0.04	0.13	181.80	0	09:13	0.12

MJ39	JUNCTION	0.00	0.00	183.95	0	00:00	0.00
MJ4	JUNCTION	0.00	0.00	179.70	0	00:00	0.00
MJ40	JUNCTION	0.00	0.02	182.94	0	09:20	0.02
MJ41	JUNCTION	0.01	0.07	183.56	0	09:14	0.06
MJ42	JUNCTION	0.04	0.14	180.79	0	09:23	0.14
MJ43	JUNCTION	0.00	0.00	186.65	0	00:00	0.00
MJ44	JUNCTION	0.01	0.04	183.43	0	09:18	0.04
MJ45	JUNCTION	0.00	0.02	184.82	0	09:06	0.02
MJ46	JUNCTION	0.00	0.03	181.59	0	09:07	0.03
MJ47	JUNCTION	0.06	0.12	182.95	0	09:08	0.12
MJ48	JUNCTION	0.08	0.27	176.72	0	09:27	0.27
MJ49	JUNCTION	0.01	0.03	182.93	0	09:14	0.03
MJ5	JUNCTION	0.01	0.09	183.72	0	09:05	0.07
MJ50	JUNCTION	0.06	0.10	182.70	1	00:00	0.10
MJ51	JUNCTION	0.00	0.03	181.07	0	09:07	0.03
MJ52	JUNCTION	0.07	0.11	182.70	1	00:00	0.11
MJ53	JUNCTION	0.00	0.01	182.26	0	09:07	0.01
MJ54	JUNCTION	0.00	0.00	182.45	0	00:00	0.00
MJ55	JUNCTION	0.02	0.09	178.62	0	09:10	0.09
MJ56	JUNCTION	0.00	0.01	182.93	0	09:08	0.01
MJ57	JUNCTION	0.01	0.06	178.89	0	09:09	0.06
MJ58	JUNCTION	0.20	0.29	182.70	1	00:00	0.29
MJ59	JUNCTION	0.20	0.28	182.22	1	00:00	0.28
MJ60	JUNCTION	0.01	0.07	180.08	0	09:08	0.07
MJ61	JUNCTION	0.21	0.29	181.04	1	00:00	0.29
MJ62	JUNCTION	0.00	0.00	183.87	0	00:00	0.00
MJ63	JUNCTION	0.03	0.13	182.36	0	09:22	0.13
MJ64	JUNCTION	0.08	0.19	182.36	0	09:22	0.19
MJ65	JUNCTION	0.01	0.05	182.52	0	09:07	0.04
MJ66	JUNCTION	0.01	0.05	180.34	0	09:09	0.05
MJ67	JUNCTION	0.06	0.18	186.17	0	09:12	0.18
MJ68	JUNCTION	0.00	0.00	184.22	0	00:00	0.00
MJ69	JUNCTION	0.01	0.07	182.36	0	09:08	0.06
MJ7	JUNCTION	0.03	0.12	186.71	0	09:08	0.12
MJ70	JUNCTION	0.01	0.06	183.32	0	09:08	0.06
MJ71	JUNCTION	0.01	0.06	179.06	0	09:06	0.05
MJ72	JUNCTION	0.05	0.17	182.61	0	09:18	0.17
MJ73	JUNCTION	0.01	0.08	182.43	0	09:09	0.08
MJ74	JUNCTION	0.02	0.16	182.81	0	09:15	0.16
MJ75	JUNCTION	0.02	0.08	183.05	0	09:14	0.08
MJ76	JUNCTION	0.01	0.04	183.78	0	09:08	0.04

MJ77	JUNCTION	0.01	0.04	182.40	0	09:07	0.04
MJ78	JUNCTION	0.01	0.05	183.18	0	09:09	0.05
MJ79	JUNCTION	0.02	0.10	182.75	0	09:17	0.10
MJ8	JUNCTION	0.00	0.00	189.00	0	00:00	0.00
MJ80	JUNCTION	0.01	0.06	182.78	0	09:07	0.05
MJ81	JUNCTION	0.02	0.11	183.26	0	09:07	0.10
MJ82	JUNCTION	0.02	0.11	182.80	0	09:16	0.11
MJ83	JUNCTION	0.05	0.18	182.66	0	09:17	0.18
MJ84	JUNCTION	0.00	0.04	185.68	0	09:06	0.03
MJ85	JUNCTION	0.00	0.03	183.93	0	09:09	0.03
MJ86	JUNCTION	0.01	0.05	184.40	0	09:06	0.04
MJ87	JUNCTION	0.07	0.18	183.50	0	09:12	0.18
MJ88	JUNCTION	0.00	0.00	183.05	0	00:00	0.00
MJ89	JUNCTION	0.03	0.11	182.87	0	09:14	0.11
MJ9	JUNCTION	0.01	0.07	178.71	0	09:07	0.07
MJ90	JUNCTION	0.20	0.29	181.96	1	00:00	0.29
MJ91	JUNCTION	0.00	0.02	184.16	0	09:11	0.02
MJ92	JUNCTION	0.01	0.06	186.03	0	09:10	0.06
MJ93	JUNCTION	0.01	0.05	185.01	0	09:06	0.04
MJ94	JUNCTION	0.07	0.10	184.62	1	00:00	0.10
MJ95	JUNCTION	0.02	0.09	181.25	0	09:20	0.09
MJ96	JUNCTION	0.02	0.04	182.96	0	09:23	0.04
MJ97	JUNCTION	0.45	0.61	183.05	0	10:30	0.61
MJ98	JUNCTION	0.02	0.11	183.48	0	09:11	0.11
MJ99	JUNCTION	0.01	0.05	185.42	0	09:10	0.05
OGS-	JUNCTION	0.02	0.07	180.56	0	09:20	0.07
RICE_POND_OUTLET	JUNCTION	0.13	0.28	181.10	0	10:52	0.28
OF1	OUTFALL	0.00	0.00	184.20	0	00:00	0.00
OF10-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF11-M	OUTFALL	0.00	0.00	183.10	0	00:00	0.00
OF12-	OUTFALL	0.01	0.17	179.32	0	09:13	0.15
OF13-1	OUTFALL	0.02	0.07	180.38	0	09:20	0.07
OF13-2	OUTFALL	0.01	0.05	180.36	0	09:13	0.05
OF14-	OUTFALL	0.13	0.28	179.83	0	10:52	0.28
OF15-	OUTFALL	0.00	0.00	177.00	0	00:00	0.00
OF16-	OUTFALL	0.04	0.15	177.15	0	09:09	0.15
OF17-	OUTFALL	0.09	0.62	178.42	0	09:09	0.61
OF18-M	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF19-	OUTFALL	0.03	0.09	178.24	0	09:09	0.09
OF1-M	OUTFALL	0.08	0.27	175.27	0	09:27	0.27
OF20-	OUTFALL	0.07	0.26	178.26	0	09:18	0.26

OF21-	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF22_M	OUTFALL	0.00	0.00	181.25	0	00:00	0.00
OF23-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF24-	OUTFALL	0.06	0.28	177.54	0	09:22	0.28
OF25-	OUTFALL	0.06	0.26	177.85	0	09:23	0.26
OF26-M	OUTFALL	0.01	0.09	178.61	0	09:14	0.08
OF27-1	OUTFALL	0.06	0.17	177.35	0	10:09	0.17
OF27-M	OUTFALL	0.01	0.08	178.94	0	09:22	0.08
OF28-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF29-	OUTFALL	0.00	0.00	178.63	0	00:00	0.00
OF2-M	OUTFALL	0.03	0.12	177.22	0	09:25	0.12
OF2-M-	OUTFALL	0.01	0.04	177.14	0	09:07	0.04
OF3-	OUTFALL	0.07	0.17	176.17	0	10:01	0.16
OF30-M	OUTFALL	0.01	0.06	179.89	0	09:08	0.06
OF31-M	OUTFALL	0.01	0.07	181.45	0	09:11	0.07
OF32-M	OUTFALL	0.03	0.18	185.10	0	09:07	0.17
OF33-	OUTFALL	0.08	0.35	177.38	0	09:13	0.34
OF34-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF35-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF36-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF37-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF38-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF39-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF3-M	OUTFALL	0.01	0.08	177.81	0	09:07	0.08
OF40-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF41-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF42-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF43-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF44-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF45-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF46-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF47-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF48-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF49-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF4-M	OUTFALL	0.01	0.05	175.67	0	09:07	0.05
OF50	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF51	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF52	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF53	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF54	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF55	OUTFALL	0.00	0.00	0.00	0	00:00	0.00

OF56	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF57	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF58	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF59	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF5-M	OUTFALL	0.00	0.03	182.89	0	09:14	0.03
OF6-	OUTFALL	0.05	0.19	175.69	0	09:09	0.19
OF60	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF61	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF7-M	OUTFALL	0.02	0.12	177.26	0	09:09	0.12
OF8-	OUTFALL	0.00	0.00	176.00	0	00:00	0.00
OF9-M	OUTFALL	0.02	0.12	179.16	0	09:07	0.11
Gill_RD_Pond	STORAGE	0.79	1.36	178.01	0	10:08	1.35
Rice_Pond	STORAGE	2.48	3.06	182.31	0	10:52	3.06
SCU1	STORAGE	0.07	0.67	185.17	0	09:21	0.67
SCU2	STORAGE	0.14	0.92	187.92	0	09:25	0.91
SCU3	STORAGE	0.00	0.00	187.50	0	00:00	0.00

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
4390544795870	JUNCTION	0.012	0.073	0	09:14	0.0212	0.212	-1.190
4390824795850	JUNCTION	0.000	0.107	0	09:15	0	0.275	0.000
4391014795950	JUNCTION	0.052	0.091	0	09:05	0.0929	0.192	0.907
4391194795830	JUNCTION	0.029	0.083	0	09:09	0.051	0.302	-0.485
4391304795930	JUNCTION	0.092	0.102	0	09:05	0.163	0.185	-4.309
4391504795920	JUNCTION	0.022	0.022	0	09:05	0.0397	0.0397	0.044
4391544795810	JUNCTION	0.000	0.129	0	09:10	0	0.419	0.743
4391664795910	JUNCTION	0.075	0.095	0	09:05	0.132	0.177	0.397
4391884795900	JUNCTION	0.026	0.026	0	09:05	0.0468	0.0468	0.097
4392024795890	JUNCTION	0.086	0.096	0	09:05	0.152	0.173	-0.215
4393014795360	JUNCTION	0.195	0.328	0	09:06	0.346	0.78	0.426
4393464795440	JUNCTION	0.312	0.312	0	09:05	0.567	0.567	-0.613
4394414795760	JUNCTION	0.027	0.027	0	09:05	0.0697	0.0697	-0.655

4394754795460	JUNCTION	0.189	0.277	0	09:05	0.336	1.22	0.007	
4394784795740	JUNCTION	0.000	0.148	0	09:20	0	0.479	0.231	
4395014795520	JUNCTION	0.116	0.740	0	09:08	0.205	2.32	0.692	
4395024795240	JUNCTION	0.123	0.123	0	09:05	0.28	0.28	0.148	
4395174795720	JUNCTION	0.063	0.196	0	09:17	0.123	0.642	0.357	
4395694795410	JUNCTION	0.188	0.188	0	09:05	0.334	0.334	-0.279	
4396134795480	JUNCTION	0.148	0.512	0	09:05	0.287	0.897	0.088	
4396584795550	JUNCTION	0.424	0.424	0	09:05	0.752	0.752	-0.506	
4396744795620	JUNCTION	0.201	0.201	0	09:05	0.521	0.521	0.237	
CB15	JUNCTION	0.137	0.137	0	09:05	0.218	0.218	0.009	
CB16	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB17	JUNCTION	0.096	0.096	0	09:05	0.153	0.153	0.123	
CB18	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB19	JUNCTION	0.079	0.079	0	09:05	0.125	0.125	-0.009	
CB20	JUNCTION	0.114	0.193	0	09:05	0.181	0.306	0.008	
CB21	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB23	JUNCTION	0.021	0.021	0	09:05	0.034	0.034	0.017	
CB26	JUNCTION	0.000	0.087	0	09:12	0	0.132	0.008	
CB27	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB30_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB31	JUNCTION	0.000	0.001	0	09:40	0	0.00018	0.179	
CB32	JUNCTION	0.000	0.002	0	09:40	0	0.000912	0.031	
CB33	JUNCTION	0.000	0.001	0	09:40	0	0.000686	8.018	
CB34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB35	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB41	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB42	JUNCTION	0.000	0.001	0	09:57	0	4.55e-05	0.507	
CB-58	JUNCTION	0.000	0.805	0	09:21	0	3.25	0.040	
CBMH_1	JUNCTION	0.000	0.014	0	09:18	0	0.0921	0.053	
CBMH_40	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_41	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_44	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH_46	JUNCTION	0.000	0.003	0	09:55	0	0.00554	0.025	
CBMH_62	JUNCTION	0.000	0.116	0	09:23	0	0.6	0.005	
CBMH_9	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH1	JUNCTION	0.000	0.002	0	09:06	0	0.000225	4.918	
CBMH1_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr

CBMH10_Main	JUNCTION	0.000	0.101	0	09:09	0	0.546	0.007	
CBMH2	JUNCTION	0.000	0.010	0	09:05	0	0.0937	0.019	
CBMH2_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH3_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH4_ON	JUNCTION	0.000	0.005	0	09:04	0	0.00451	38.081	
CBMH5	JUNCTION	0.000	0.171	0	09:08	0	0.827	0.009	
CBMH5_ON	JUNCTION	0.032	0.045	0	09:05	0.0504	0.267	0.265	
CBMH6_ON	JUNCTION	0.000	0.040	0	09:09	0	0.262	0.241	
CBMH7	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH7_ON	JUNCTION	0.000	0.039	0	09:10	0	0.262	-0.174	
CBMH8_ON	JUNCTION	0.000	0.102	0	09:08	0	0.548	0.233	
CBMH9_ON	JUNCTION	0.000	0.101	0	09:09	0	0.546	0.001	
DCB72	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
DICBMH42	JUNCTION	0.000	0.083	0	10:08	0	1.11	0.102	
J1	JUNCTION	0.098	0.098	0	09:05	0.255	0.255	-0.106	
J10	JUNCTION	0.112	0.715	0	09:09	0.186	2.03	-0.055	
J101	JUNCTION	0.000	0.159	0	09:23	0	0.922	0.028	
J102	JUNCTION	0.000	0.468	0	09:23	0	2.4	0.206	
J105	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J106	JUNCTION	0.000	0.008	0	09:10	0	0.00342	0.091	
J110	JUNCTION	0.000	0.006	0	09:43	0	0.0758	0.133	
J113	JUNCTION	0.000	0.005	0	09:13	0	0.0757	0.014	
J115	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J116	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J12	JUNCTION	0.000	0.017	0	09:08	0	0.115	0.024	
J125	JUNCTION	0.000	0.334	0	09:18	0	2.35	0.007	
J127	JUNCTION	0.101	0.128	0	09:08	0.161	0.427	-0.022	
J128	JUNCTION	0.000	0.073	0	09:12	0	0.266	0.047	
J15	JUNCTION	0.000	0.017	0	09:08	0	0.115	0.047	
J2	JUNCTION	0.071	0.117	0	09:10	0.183	0.312	-0.474	
J20	JUNCTION	0.000	0.017	0	09:09	0	0.114	0.145	
J24	JUNCTION	0.000	0.487	0	09:13	0	2.57	0.013	
J3	JUNCTION	0.000	0.116	0	09:11	0	0.313	0.494	
J30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J31	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J35	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J36	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J38	JUNCTION	0.030	0.030	0	09:05	0.0477	0.0477	-0.036	
J4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr

J43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J47	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J48	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J49	JUNCTION	0.000	0.000	0	09:56	0	2.74e-05	0.110	ltr
J5	JUNCTION	0.000	0.017	0	09:08	0	0.115	0.043	
J50	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J52	JUNCTION	0.000	0.316	0	09:12	0	1.81	0.035	
J55	JUNCTION	0.000	0.317	0	09:13	0	1.81	-0.002	
J6	JUNCTION	0.000	0.104	0	09:21	0	0.312	0.111	
J62	JUNCTION	0.000	0.316	0	09:13	0	1.81	0.009	
J66	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J67	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J7	JUNCTION	0.000	0.042	0	09:15	0	0.127	0.490	
J70	JUNCTION	0.000	0.082	0	09:09	0	0.524	0.018	
J78	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J8	JUNCTION	0.058	0.951	0	09:18	0.112	2.33	0.035	
J83	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J9	JUNCTION	0.182	0.730	0	09:10	0.289	2.11	-0.000	
J91	JUNCTION	0.000	0.334	0	09:18	0	2.35	0.003	
J93	JUNCTION	0.000	0.017	0	09:13	0	0.113	0.170	
J95	JUNCTION	0.000	0.017	0	09:13	0	0.113	0.021	
J98	JUNCTION	0.000	0.017	0	09:14	0	0.113	-0.115	
MH_1	JUNCTION	0.000	0.014	0	09:19	0	0.0921	0.065	
MH_10	JUNCTION	0.000	0.007	0	09:21	0	0.0539	0.024	
MH_11	JUNCTION	0.000	0.007	0	09:22	0	0.0538	-0.173	
MH_12	JUNCTION	0.000	0.011	0	09:06	0	0.0725	0.075	
MH_13	JUNCTION	0.000	0.011	0	09:07	0	0.0724	0.062	
MH_14	JUNCTION	0.000	0.011	0	09:07	0	0.0724	0.142	
MH_15	JUNCTION	0.000	0.074	0	09:10	0	0.347	0.049	
MH_16	JUNCTION	0.000	0.074	0	09:10	0	0.346	0.022	
MH_17	JUNCTION	0.000	0.074	0	09:11	0	0.346	0.243	
MH_18	JUNCTION	0.000	0.011	0	09:06	0	0.0725	0.063	
MH_19	JUNCTION	0.000	0.008	0	09:05	0	0.0645	0.028	
MH_2	JUNCTION	0.000	0.014	0	09:20	0	0.092	0.022	
MH_20	JUNCTION	0.000	0.007	0	09:05	0	0.0644	0.071	
MH_21	JUNCTION	0.000	0.007	0	09:06	0	0.0644	0.089	
MH_22	JUNCTION	0.000	0.018	0	09:07	0	0.137	0.066	
MH_23	JUNCTION	0.000	0.018	0	09:07	0	0.137	0.486	
MH_24	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_25	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_26	JUNCTION	0.000	0.018	0	09:08	0	0.136	0.044	

MH_27	JUNCTION	0.000	0.018	0	09:09	0	0.136	0.192	
MH_29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_34	JUNCTION	0.000	0.025	0	09:06	0	0.132	0.079	
MH_35	JUNCTION	0.000	0.024	0	09:07	0	0.132	0.029	
MH_36	JUNCTION	0.000	0.024	0	09:07	0	0.132	0.092	
MH_37	JUNCTION	0.000	0.136	0	09:09	0	0.835	-0.015	
MH_38	JUNCTION	0.000	0.136	0	09:10	0	0.835	0.165	
MH_39	JUNCTION	0.000	0.470	0	09:15	0	3.01	0.071	
MH_43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH_45	JUNCTION	0.000	0.001	0	10:08	0	0.000809	0.065	
MH_47	JUNCTION	0.000	0.470	0	09:15	0	3.01	0.414	
MH_56	JUNCTION	0.000	0.030	0	09:20	0	0.533	0.058	
MH_57	JUNCTION	0.000	0.030	0	09:21	0	0.533	0.011	
MH_58	JUNCTION	0.000	0.030	0	09:21	0	0.532	0.022	
MH_59	JUNCTION	0.000	0.116	0	09:21	0	0.604	0.011	
MH_61	JUNCTION	0.000	0.116	0	09:22	0	0.6	0.026	
MH_63	JUNCTION	0.000	0.145	0	09:23	0	1.13	0.054	
MH_64	JUNCTION	0.000	0.145	0	09:24	0	1.13	0.396	
MH_65	JUNCTION	0.000	0.221	0	09:23	0	1.31	-0.190	
MH_66	JUNCTION	0.000	0.220	0	09:23	0	1.31	0.094	
MH_67	JUNCTION	0.000	0.740	0	09:20	0	4.48	0.108	
MH_68	JUNCTION	0.000	0.740	0	09:21	0	4.48	0.093	
MH_69	JUNCTION	0.000	0.219	0	10:52	0	4.19	0.045	
MH_70	JUNCTION	0.000	0.219	0	10:52	0	4.18	0.006	
MH1	JUNCTION	0.000	0.001	0	09:01	0	0.00063	0.149	
MH1_Main	JUNCTION	0.000	0.012	0	09:06	0	0.104	0.003	
MH10	JUNCTION	0.000	0.807	0	09:07	0	2.03	0.052	
MH10__S	JUNCTION	0.000	0.025	0	09:16	0	0.000828	0.715	
MH10_Main	JUNCTION	0.000	0.176	0	10:01	0	2.19	0.228	
MH11	JUNCTION	0.000	1.011	0	09:08	0	2.72	0.025	
MH11__S	JUNCTION	0.000	0.348	0	09:10	0	0.421	9.078	
MH11_Main	JUNCTION	0.000	0.176	0	10:01	0	2.19	0.010	
MH12	JUNCTION	0.000	0.193	0	09:05	0	0.306	-0.005	
MH13	JUNCTION	0.000	1.050	0	09:08	0	2.99	0.018	
MH13_Main	JUNCTION	0.000	0.039	0	09:09	0	0.118	0.063	
MH13_Main_	JUNCTION	0.000	0.039	0	09:10	0	0.118	0.094	
MH14	JUNCTION	0.000	1.051	0	09:08	0	2.99	0.015	
MH14_Main	JUNCTION	0.000	0.039	0	09:11	0	0.118	-0.066	
MH15	JUNCTION	0.000	1.051	0	09:08	0	2.99	0.012	
MH15_Main	JUNCTION	0.000	0.037	0	09:13	0	0.118	0.070	

MH16	JUNCTION	0.000	1.060	0	09:09	0	3.08	0.009	
MH2	JUNCTION	0.000	0.281	0	09:11	0	0.682	0.030	
MH2_Main	JUNCTION	0.000	0.122	0	09:54	0	1.18	0.035	
MH2_S	JUNCTION	0.250	0.504	0	09:05	0.397	0.713	0.123	
MH21	JUNCTION	0.000	0.073	0	09:11	0	0.261	0.159	
MH21_S	JUNCTION	0.163	0.718	0	09:11	0.259	2.09	0.008	
MH22	JUNCTION	0.000	0.147	0	09:11	0	0.527	0.192	
MH23	JUNCTION	0.000	0.215	0	09:11	0	0.796	0.020	
MH24	JUNCTION	0.000	0.801	0	09:21	0	3.14	0.051	
MH25	JUNCTION	0.000	0.805	0	09:22	0	3.25	0.011	
MH25-1	JUNCTION	0.000	0.805	0	09:21	0	3.25	0.014	
MH26	JUNCTION	0.000	0.827	0	09:22	0	3.29	-0.000	
MH3	JUNCTION	0.000	0.307	0	09:11	0	0.903	0.041	
MH3_Main	JUNCTION	0.000	0.126	0	09:55	0	1.3	0.032	
MH3_S	JUNCTION	0.307	0.326	0	09:05	0.488	0.506	-0.165	
MH30	JUNCTION	0.000	0.086	0	09:24	0	0.381	0.064	
MH31	JUNCTION	0.000	0.086	0	09:25	0	0.381	-0.006	
MH32	JUNCTION	0.000	0.124	0	09:14	0	0.564	0.283	
MH33	JUNCTION	0.000	0.124	0	09:14	0	0.562	-0.794	
MH34	JUNCTION	0.000	0.043	0	09:05	0	0.184	0.031	
MH34_S	JUNCTION	0.289	0.313	0	09:05	0.458	0.844	-0.177	
MH35	JUNCTION	0.000	0.043	0	09:06	0	0.184	0.037	
MH36	JUNCTION	0.000	0.043	0	09:06	0	0.184	0.264	
MH36_S	JUNCTION	0.000	0.168	0	09:12	0	0.388	0.469	
MH37	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH37_S	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH38	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH39	JUNCTION	0.000	0.001	0	09:15	0	0.00246	4.048	
MH4	JUNCTION	0.000	0.324	0	09:11	0	1.02	-0.070	
MH4_Main	JUNCTION	0.000	0.135	0	09:56	0	1.39	0.064	
MH40	JUNCTION	0.000	0.209	0	09:10	0	0.852	0.491	
MH41	JUNCTION	0.000	0.248	0	09:12	0	1.03	-0.007	
MH41_S	JUNCTION	0.000	0.209	0	09:08	0	0.421	0.000	
MH42	JUNCTION	0.000	0.083	0	10:08	0	1.1	0.112	
MH43	JUNCTION	0.000	0.083	0	10:08	0	1.1	-0.019	
MH5	JUNCTION	0.000	0.074	0	09:07	0	0.162	0.101	
MH5_Main	JUNCTION	0.000	0.163	0	09:56	0	1.72	0.008	
MH6	JUNCTION	0.000	0.074	0	09:08	0	0.162	0.360	
MH6_Main	JUNCTION	0.000	0.164	0	09:59	0	1.89	0.170	
MH7	JUNCTION	0.000	0.072	0	09:09	0	0.161	-0.180	
MH7_Main	JUNCTION	0.000	0.164	0	09:59	0	1.88	0.020	

MH8	JUNCTION	0.000	0.416	0	09:11	0	1.38	-0.091	
MH8_Main	JUNCTION	0.000	0.164	0	09:59	0	1.88	0.026	
MH8_S	JUNCTION	0.260	0.318	0	09:05	0.414	0.481	0.038	
MH9	JUNCTION	0.000	0.737	0	09:08	0	1.88	0.151	
MH9__S	JUNCTION	0.000	0.251	0	09:07	0	0.283	-0.005	
MH9_Main	JUNCTION	0.000	0.168	0	09:59	0	1.98	-0.192	
MJ_	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ1	JUNCTION	0.070	0.362	0	09:10	0.135	1.02	2.563	
MJ10	JUNCTION	0.008	0.078	0	09:05	0.0159	0.133	0.028	
MJ100	JUNCTION	1.090	1.649	0	09:05	1.73	3.22	0.224	
MJ101	JUNCTION	0.251	0.254	0	09:05	0.398	0.423	0.109	
MJ102	JUNCTION	0.140	0.160	0	09:10	0.213	0.283	0.000	
MJ103	JUNCTION	0.255	0.256	0	09:05	0.406	0.489	0.443	
MJ104	JUNCTION	0.051	0.153	0	09:08	0.0804	0.442	0.666	
MJ105	JUNCTION	0.198	0.875	0	09:15	0.213	2	71.152	
MJ106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ107	JUNCTION	0.029	0.172	0	09:09	0.0459	0.511	0.862	
MJ108	JUNCTION	0.239	0.239	0	09:05	0.38	0.38	-0.925	
MJ109	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ110	JUNCTION	0.158	0.158	0	09:05	0.251	0.251	0.677	
MJ111	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ112	JUNCTION	0.144	0.277	0	09:17	0.269	0.987	0.181	
MJ113	JUNCTION	0.064	0.064	0	09:10	0.0831	0.0831	-4.658	
MJ114	JUNCTION	0.029	0.029	0	09:05	0.0467	0.0467	-4.844	
MJ115	JUNCTION	0.068	0.228	0	09:05	0.107	0.389	-0.076	
MJ116	JUNCTION	0.489	0.539	0	09:05	0.777	1.03	-0.026	
MJ117	JUNCTION	0.015	0.015	0	09:05	0.0243	0.0243	-10.399	
MJ118	JUNCTION	0.093	0.799	0	09:06	0.148	1.71	32.659	
MJ119	JUNCTION	0.110	0.582	0	09:13	0.174	1.82	-0.016	
MJ12	JUNCTION	0.584	0.584	0	09:05	1.16	1.16	-0.247	
MJ120	JUNCTION	0.041	0.136	0	09:06	0.131	0.387	0.000	
MJ121	JUNCTION	0.175	0.175	0	09:05	0.277	0.277	0.265	
MJ122	JUNCTION	0.680	0.803	0	09:05	1.08	1.62	-0.125	
MJ123	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ124	JUNCTION	0.212	0.476	0	09:05	0.337	1.05	0.967	
MJ125	JUNCTION	0.225	0.225	0	09:05	0.357	0.357	-1.691	
MJ126	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ127	JUNCTION	0.130	0.130	0	09:05	0.207	0.207	-2.515	
MJ128	JUNCTION	0.400	0.420	0	09:05	0.636	0.703	-0.478	
MJ129	JUNCTION	0.449	0.906	0	09:05	0.714	2.18	0.295	

MJ13	JUNCTION	0.413	0.532	0	09:05	0.656	0.979	0.004	
MJ130	JUNCTION	0.604	0.604	0	09:05	0.959	0.959	-2.438	
MJ131	JUNCTION	0.250	0.252	0	09:05	0.397	0.406	-0.233	
MJ132	JUNCTION	0.024	0.318	0	09:13	0.0384	1.48	0.036	
MJ133	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ134	JUNCTION	0.062	0.876	0	09:09	0.0981	2	3.767	
MJ135	JUNCTION	0.428	0.491	0	09:10	0.657	0.787	-0.785	
MJ136	JUNCTION	0.035	0.161	0	09:05	0.0563	0.24	-1.965	
MJ137	JUNCTION	0.653	0.653	0	09:05	1.04	1.04	-3.502	
MJ138	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ139	JUNCTION	0.240	0.240	0	09:05	0.381	0.381	-0.072	
MJ14	JUNCTION	0.034	0.064	0	09:06	0.0656	0.134	0.359	
MJ140	JUNCTION	0.000	0.006	0	09:08	0	0.00278	9.319	
MJ142	JUNCTION	0.000	0.106	0	09:10	0	0.134	1.852	
MJ143	JUNCTION	0.126	0.126	0	09:05	0.2	0.2	-0.001	
MJ144	JUNCTION	0.097	0.097	0	09:05	0.154	0.154	-0.717	
MJ145	JUNCTION	0.390	0.408	0	09:05	0.64	0.718	-0.001	
MJ146	JUNCTION	0.000	0.926	0	09:09	0	2.37	0.267	
MJ147	JUNCTION	0.173	0.924	0	09:10	0.275	2.72	-0.543	
MJ148	JUNCTION	0.649	1.091	0	09:06	1.03	3.23	0.199	
MJ149	JUNCTION	0.000	0.072	0	09:05	0	0.0313	0.360	
MJ15	JUNCTION	0.349	0.349	0	09:05	0.555	0.555	-0.114	
MJ150	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ151	JUNCTION	0.102	0.102	0	09:05	0.162	0.162	0.103	
MJ152	JUNCTION	0.792	0.962	0	09:05	1.3	2.67	-0.079	
MJ153	JUNCTION	0.073	0.368	0	09:19	0.13	0.778	0.437	
MJ154	JUNCTION	0.280	1.374	0	09:12	0.497	4.07	0.601	
MJ155	JUNCTION	0.407	1.238	0	09:09	0.721	3.71	-0.128	
MJ156	JUNCTION	0.334	0.495	0	09:05	0.592	1.04	-0.905	
MJ158	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ16	JUNCTION	0.000	0.007	0	09:07	0	0.00508	19.161	
MJ17	JUNCTION	0.092	0.092	0	09:05	0.146	0.146	-3.447	
MJ18	JUNCTION	0.022	0.131	0	09:08	0.0345	0.388	0.453	
MJ19	JUNCTION	0.209	0.262	0	09:05	0.332	0.449	11.215	
MJ2	JUNCTION	0.125	0.151	0	09:05	0.241	0.305	0.517	
MJ20	JUNCTION	0.027	0.040	0	09:05	0.0522	0.0811	0.602	
MJ21	JUNCTION	0.047	0.220	0	09:06	0.0748	0.419	0.406	
MJ22	JUNCTION	1.999	2.354	0	09:05	3.18	4.36	0.377	
MJ23	JUNCTION	0.038	0.038	0	09:05	0.0777	0.0777	0.105	
MJ24	JUNCTION	0.330	0.779	0	09:07	0.525	1.83	1.059	
MJ25	JUNCTION	0.186	0.197	0	09:05	0.332	0.371	0.529	

MJ26	JUNCTION	0.239	0.320	0	09:05	0.396	0.865	0.936	
MJ27	JUNCTION	0.109	0.786	0	09:24	0.199	3.08	0.145	
MJ28	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ29	JUNCTION	0.029	0.102	0	09:12	0.0718	0.35	0.000	
MJ3	JUNCTION	0.351	0.989	0	09:06	0.558	3.06	0.301	
MJ30	JUNCTION	0.107	0.150	0	09:05	0.206	0.339	0.493	
MJ31	JUNCTION	0.126	0.222	0	09:07	0.244	0.581	-0.331	
MJ32	JUNCTION	0.080	0.103	0	09:05	0.155	0.236	0.567	
MJ33	JUNCTION	0.000	0.063	0	09:13	0	0.228	-1.008	
MJ34	JUNCTION	0.162	0.168	0	09:05	0.257	0.266	0.025	
MJ35	JUNCTION	0.096	0.754	0	09:23	0.197	2.89	0.310	
MJ36	JUNCTION	1.085	1.179	0	09:05	1.72	1.95	-0.141	
MJ37	JUNCTION	0.064	0.064	0	09:05	0.131	0.131	-3.101	
MJ38	JUNCTION	0.103	0.108	0	09:05	0.164	0.234	0.000	
MJ39	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ40	JUNCTION	0.000	0.018	0	09:09	0	0.017	8.364	
MJ41	JUNCTION	0.000	0.027	0	09:08	0	0.0152	6.285	
MJ42	JUNCTION	0.108	0.708	0	09:22	0.171	2.65	0.227	
MJ43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ44	JUNCTION	0.028	0.028	0	09:05	0.0547	0.0547	2.992	
MJ45	JUNCTION	0.052	0.052	0	09:05	0.082	0.082	-0.247	
MJ46	JUNCTION	0.026	0.030	0	09:05	0.0417	0.049	-2.206	
MJ47	JUNCTION	0.095	0.095	0	09:05	0.151	0.153	0.000	
MJ48	JUNCTION	0.078	0.542	0	09:09	0.125	1.36	3.655	
MJ49	JUNCTION	0.000	0.042	0	09:09	0	0.117	-1.404	
MJ5	JUNCTION	0.074	0.074	0	09:05	0.117	0.117	0.109	
MJ50	JUNCTION	0.000	0.007	0	09:06	0	0.0116	980.494	
MJ51	JUNCTION	0.039	0.039	0	09:05	0.0619	0.0619	0.373	
MJ52	JUNCTION	0.054	0.054	0	09:05	0.148	0.149	28.915	
MJ53	JUNCTION	0.013	0.013	0	09:05	0.0206	0.0206	-6.389	
MJ54	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ55	JUNCTION	0.139	0.405	0	09:08	0.272	0.903	-0.097	
MJ56	JUNCTION	0.040	0.040	0	09:05	0.0635	0.0637	-2.020	
MJ57	JUNCTION	0.064	0.131	0	09:07	0.102	0.337	0.217	
MJ58	JUNCTION	0.006	0.062	0	09:18	0.0147	0.167	0.000	
MJ59	JUNCTION	0.109	0.109	0	09:10	0.221	0.221	0.000	
MJ60	JUNCTION	0.013	0.196	0	09:07	0.0213	0.415	0.205	
MJ61	JUNCTION	0.019	0.099	0	09:07	0.0517	0.241	0.000	
MJ62	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ63	JUNCTION	0.043	0.696	0	09:20	0.068	2.5	0.384	

MJ64	JUNCTION	0.095	0.134	0	09:05	0.15	0.284	9.996	
MJ65	JUNCTION	0.086	0.119	0	09:05	0.137	0.222	-1.122	
MJ66	JUNCTION	0.008	0.083	0	09:07	0.0166	0.156	0.397	
MJ67	JUNCTION	0.767	0.767	0	09:05	1.22	1.22	1.687	
MJ68	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ69	JUNCTION	0.146	0.210	0	09:05	0.231	0.395	0.449	
MJ7	JUNCTION	0.614	0.704	0	09:05	0.973	1.19	0.484	
MJ70	JUNCTION	0.303	0.390	0	09:05	0.482	0.893	0.873	
MJ71	JUNCTION	0.113	0.113	0	09:05	0.182	0.182	-4.790	
MJ72	JUNCTION	0.136	0.631	0	09:17	0.216	2.17	0.310	
MJ73	JUNCTION	0.038	0.128	0	09:06	0.0602	0.237	-1.163	
MJ74	JUNCTION	0.245	0.300	0	09:05	0.389	0.525	0.636	
MJ75	JUNCTION	0.015	0.055	0	09:08	0.0239	0.122	1.266	
MJ76	JUNCTION	0.049	0.128	0	09:05	0.0773	0.229	0.632	
MJ77	JUNCTION	0.020	0.095	0	09:05	0.0314	0.162	0.356	
MJ78	JUNCTION	0.010	0.110	0	09:07	0.0154	0.212	-3.839	
MJ79	JUNCTION	0.020	0.248	0	09:16	0.032	0.666	0.026	
MJ8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ80	JUNCTION	0.094	0.150	0	09:05	0.15	0.258	-0.060	
MJ81	JUNCTION	0.103	0.119	0	09:05	0.163	0.197	0.524	
MJ82	JUNCTION	0.111	0.254	0	09:13	0.177	0.669	0.447	
MJ83	JUNCTION	0.038	0.376	0	09:13	0.0598	1.3	0.991	
MJ84	JUNCTION	0.189	0.189	0	09:05	0.3	0.3	-0.392	
MJ85	JUNCTION	0.000	0.161	0	09:07	0	0.257	-0.561	
MJ86	JUNCTION	0.134	0.134	0	09:05	0.212	0.212	0.347	
MJ87	JUNCTION	0.235	0.252	0	09:05	0.373	0.412	0.000	
MJ88	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ89	JUNCTION	0.154	0.441	0	09:11	0.244	1.43	0.331	
MJ9	JUNCTION	0.096	0.096	0	09:05	0.155	0.155	0.919	
MJ90	JUNCTION	0.181	0.241	0	09:10	0.301	0.437	0.000	
MJ91	JUNCTION	0.003	0.040	0	09:06	0.0044	0.0863	-4.797	
MJ92	JUNCTION	0.426	0.620	0	09:06	0.677	1.88	0.285	
MJ93	JUNCTION	0.277	0.305	0	09:05	0.52	0.587	-0.039	
MJ94	JUNCTION	0.000	0.024	0	09:06	0	0.041	0.000	
MJ95	JUNCTION	0.231	0.231	0	09:05	0.598	0.598	0.955	
MJ96	JUNCTION	0.000	0.023	0	09:08	0	0.191	3.046	
MJ97	JUNCTION	0.002	0.203	0	09:07	0.0025	0.358	0.000	
MJ98	JUNCTION	0.000	0.416	0	09:07	0	1	0.590	
MJ99	JUNCTION	0.029	0.255	0	09:09	0.0467	0.758	-0.028	
OGS-RICE_POND_OUTLET	JUNCTION	0.000	0.014	0	09:20	0	0.092	0.014	
	JUNCTION	0.000	0.219	0	10:52	0	4.19	0.036	

OF1	OUTFALL	0.000	0.144	0	09:24	0	0.478	0.000	
OF10-	OUTFALL	0.589	0.589	0	09:05	0.936	0.936	0.000	
OF11-M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF12-	OUTFALL	0.000	0.087	0	09:13	0	0.132	0.000	
OF13-1	OUTFALL	0.352	0.361	0	09:10	0.938	1.03	0.000	
OF13-2	OUTFALL	0.000	0.122	0	09:13	0	0.416	0.000	
OF14-	OUTFALL	0.193	0.229	0	10:43	0.5	4.68	0.000	
OF15-	OUTFALL	1.691	1.691	0	09:05	2.69	2.69	0.000	
OF16-	OUTFALL	0.000	0.171	0	09:09	0	0.827	0.000	
OF17-	OUTFALL	0.127	1.138	0	09:08	0.202	3.29	0.000	
OF18-M	OUTFALL	0.064	0.064	0	09:05	0.102	0.102	0.000	
OF19-	OUTFALL	0.197	0.255	0	09:05	0.312	0.859	0.000	
OF1-M	OUTFALL	0.000	0.245	0	09:27	0	1.31	0.000	
OF20-	OUTFALL	0.000	0.334	0	09:18	0	2.35	0.000	
OF21-	OUTFALL	0.587	0.587	0	09:05	0.934	0.934	0.000	
OF22_M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF23-	OUTFALL	1.199	1.199	0	09:05	1.91	1.91	0.000	
OF24-	OUTFALL	1.371	2.085	0	09:13	4.14	7.43	0.000	
OF25-	OUTFALL	0.000	0.468	0	09:23	0	2.4	0.000	
OF26-M	OUTFALL	0.193	0.659	0	09:12	0.307	2.13	0.000	
OF27-1	OUTFALL	0.289	0.289	0	09:05	0.459	1.56	0.000	
OF27-M	OUTFALL	0.645	0.647	0	09:05	1.02	1.34	0.000	
OF28-	OUTFALL	0.851	0.851	0	09:05	1.35	1.35	0.000	
OF29-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF2-M	OUTFALL	0.000	0.784	0	09:25	0	3.08	0.000	
OF2-M-	OUTFALL	0.000	0.071	0	09:07	0	0.153	0.000	
OF3-	OUTFALL	0.054	0.193	0	09:12	0.0866	2.27	0.000	
OF30-M	OUTFALL	0.117	0.366	0	09:07	0.186	0.911	0.000	
OF31-M	OUTFALL	0.125	0.329	0	09:08	0.199	1.06	0.000	
OF32-M	OUTFALL	0.000	1.988	0	09:07	0	4.34	0.000	
OF33-	OUTFALL	0.000	0.488	0	09:13	0	2.57	0.000	
OF34-	OUTFALL	2.123	2.123	0	09:05	3.63	3.63	0.000	
OF35-	OUTFALL	0.052	0.052	0	09:15	0.104	0.104	0.000	
OF36-	OUTFALL	0.381	0.381	0	09:05	0.644	0.644	0.000	
OF37-	OUTFALL	0.198	0.198	0	09:15	0.412	0.412	0.000	
OF38-	OUTFALL	0.123	0.123	0	09:15	0.246	0.246	0.000	
OF39-	OUTFALL	1.323	1.323	0	09:05	2.18	2.18	0.000	
OF3-M	OUTFALL	0.000	0.437	0	09:07	0	0.765	0.000	
OF40-	OUTFALL	1.087	1.087	0	09:05	1.79	1.79	0.000	
OF41-	OUTFALL	0.906	0.906	0	09:05	1.49	1.49	0.000	
OF42-	OUTFALL	2.379	2.379	0	09:05	4.07	4.07	0.000	

OF43-	OUTFALL	3.685	3.685	0	09:05	6.3	6.3	0.000	
OF44-	OUTFALL	3.165	3.165	0	09:05	5.41	5.41	0.000	
OF45-	OUTFALL	3.108	3.108	0	09:05	5.31	5.31	0.000	
OF46-	OUTFALL	4.663	4.663	0	09:05	7.97	7.97	0.000	
OF47-	OUTFALL	5.082	5.082	0	09:05	8.68	8.68	0.000	
OF48-	OUTFALL	0.338	0.338	0	09:15	0.703	0.703	0.000	
OF49-	OUTFALL	2.418	2.418	0	09:05	4.13	4.13	0.000	
OF4-M	OUTFALL	0.207	0.399	0	09:05	0.328	0.732	0.000	
OF50	OUTFALL	1.784	1.784	0	09:05	3.05	3.05	0.000	
OF51	OUTFALL	1.650	1.650	0	09:05	2.72	2.72	0.000	
OF52	OUTFALL	2.026	2.026	0	09:05	3.33	3.33	0.000	
OF53	OUTFALL	3.792	3.792	0	09:05	6.48	6.48	0.000	
OF54	OUTFALL	3.163	3.163	0	09:05	5.4	5.4	0.000	
OF55	OUTFALL	1.017	1.017	0	09:05	1.67	1.67	0.000	
OF56	OUTFALL	2.836	2.836	0	09:05	4.67	4.67	0.000	
OF57	OUTFALL	1.068	1.068	0	09:05	1.76	1.76	0.000	
OF58	OUTFALL	3.049	3.049	0	09:05	5.07	5.07	0.000	
OF59	OUTFALL	1.172	1.172	0	09:05	1.86	1.86	0.000	
OF5-M	OUTFALL	0.487	0.502	0	09:05	0.773	0.894	0.000	
OF6-	OUTFALL	0.168	0.236	0	09:05	0.268	0.791	0.000	
OF60	OUTFALL	3.164	3.164	0	09:05	5.18	5.18	0.000	
OF61	OUTFALL	0.112	0.112	0	09:15	0.233	0.233	0.000	
OF7-M	OUTFALL	0.000	0.818	0	09:09	0	2.53	0.000	
OF8-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF9-M	OUTFALL	0.217	1.693	0	09:07	0.346	3.56	0.000	
Gill_RD_Pond	STORAGE	0.165	0.515	0	09:05	0.263	1.67	5.658	
Rice_Pond	STORAGE	0.070	1.333	0	09:20	0.208	7.74	0.010	
SCU1	STORAGE	0.339	0.339	0	09:05	0.602	0.602	-0.001	
SCU2	STORAGE	0.391	0.391	0	09:05	0.886	0.886	-0.000	
SCU3	STORAGE	0.000	0.000	0	00:00	0	0	0.000	ltr

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Meters	Min. Depth Below Rim Meters

CB15	JUNCTION	0.12	0.151	0.949
CB19	JUNCTION	0.06	0.334	0.866
CB20	JUNCTION	0.11	0.448	0.972
DICBMH42	JUNCTION	14.80	0.183	1.442
J101	JUNCTION	0.47	0.487	0.438
J110	JUNCTION	0.57	0.624	0.521
J113	JUNCTION	0.43	0.590	0.410
MH_59	JUNCTION	0.65	0.173	0.559
MH_66	JUNCTION	0.91	0.020	1.916
MH_67	JUNCTION	1.83	0.085	1.734
MH_68	JUNCTION	3.74	0.226	1.041
MH1	JUNCTION	0.29	0.069	2.521
MH11__S	JUNCTION	0.14	0.034	1.616
MH6_Main	JUNCTION	1.43	0.245	2.335

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Node Flooding Summary
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No nodes were flooded.

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Storage Volume Summary
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Storage Unit	Average Volume 1000 m3	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CMS
Gill_RD_Pond	0.442	15	0	0	0.819	28	0 10:08	0.083
Rice_Pond	3.548	25	0	0	5.317	38	0 10:52	0.219
SCU1	0.017	3	0	0	0.168	34	0 09:21	0.116
SCU2	0.036	7	0	0	0.230	46	0 09:25	0.126
SCU3	0.000	0	0	0	0.000	0	0 00:00	0.000

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Outfall Loading Summary
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Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
OF1	85.85	0.014	0.144	0.478
OF10-	99.84	0.020	0.589	0.936
OF11-M	0.00	0.000	0.000	0.000
OF12-	50.14	0.007	0.087	0.132
OF13-1	90.11	0.029	0.361	1.030
OF13-2	89.67	0.010	0.122	0.416
OF14-	99.97	0.079	0.229	4.683
OF15-	99.94	0.057	1.691	2.687
OF16-	99.57	0.018	0.171	0.827
OF17-	99.64	0.074	1.138	3.285
OF18-M	98.91	0.002	0.064	0.102
OF19-	99.71	0.017	0.255	0.859
OF1-M	88.87	0.034	0.245	1.307
OF20-	99.44	0.055	0.334	2.352
OF21-	99.83	0.020	0.587	0.934
OF22_M	0.00	0.000	0.000	0.000
OF23-	99.92	0.041	1.199	1.905
OF24-	99.95	0.186	2.085	7.430
OF25-	90.71	0.062	0.468	2.395
OF26-M	99.70	0.051	0.659	2.128
OF27-1	99.74	0.031	0.289	1.562
OF27-M	99.85	0.030	0.647	1.336
OF28-	99.90	0.028	0.851	1.350
OF29-	0.00	0.000	0.000	0.000
OF2-M	95.30	0.076	0.784	3.075
OF2-M-	94.59	0.004	0.071	0.153
OF3-	99.63	0.044	0.193	2.275
OF30-M	99.48	0.020	0.366	0.911
OF31-M	99.51	0.024	0.329	1.056
OF32-M	99.00	0.099	1.988	4.344
OF33-	99.39	0.059	0.488	2.571
OF34-	99.89	0.074	2.123	3.629
OF35-	11.15	0.025	0.052	0.104

OF36-	99.86	0.013	0.381	0.644
OF37-	11.83	0.093	0.198	0.412
OF38-	11.17	0.059	0.123	0.246
OF39-	99.88	0.044	1.323	2.177
OF3-M	90.45	0.020	0.437	0.765
OF40-	99.85	0.036	1.087	1.788
OF41-	99.82	0.030	0.906	1.491
OF42-	99.90	0.082	2.379	4.065
OF43-	99.93	0.128	3.685	6.297
OF44-	99.92	0.110	3.165	5.409
OF45-	99.92	0.108	3.108	5.311
OF46-	99.94	0.162	4.663	7.969
OF47-	99.95	0.176	5.082	8.685
OF48-	11.87	0.158	0.338	0.703
OF49-	99.90	0.084	2.418	4.131
OF4-M	99.66	0.017	0.399	0.732
OF50	99.87	0.062	1.784	3.049
OF51	99.90	0.055	1.650	2.716
OF52	99.92	0.067	2.026	3.334
OF53	99.94	0.131	3.792	6.480
OF54	99.92	0.110	3.163	5.404
OF55	99.84	0.034	1.017	1.674
OF56	99.94	0.094	2.836	4.667
OF57	99.85	0.035	1.068	1.757
OF58	99.97	0.104	3.049	5.072
OF59	99.94	0.037	1.172	1.858
OF5-M	99.81	0.019	0.502	0.894
OF6-	99.66	0.017	0.236	0.791
OF60	99.97	0.105	3.164	5.177
OF61	11.77	0.053	0.112	0.233
OF7-M	94.99	0.063	0.818	2.525
OF8-	0.00	0.000	0.000	0.000
OF9-M	99.68	0.081	1.693	3.563
System	85.12	3.678	72.497	156.274

****
Link Flow Summary
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Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days	hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
C_dummy	CONDUIT	0.245	0	09:27	2.83	0.03	0.27
C1	CONDUIT	0.488	0	09:13	2.26	0.37	0.42
C10	CHANNEL	0.082	0	09:09	0.25	0.02	0.17
C100	CONDUIT	0.470	0	09:15	1.69	0.67	0.81
C106	CONDUIT	0.136	0	09:10	1.27	0.22	0.34
C108	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C11	CHANNEL	0.255	0	09:11	0.39	0.02	0.24
C110	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C111	CONDUIT	0.000	0	00:00	0.00	0.00	0.17
C113	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C114	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C115	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C116	CONDUIT	0.001	0	10:08	0.03	0.00	0.62
C118	CONDUIT	0.001	0	09:55	0.04	0.01	0.92
C119_1	CONDUIT	0.002	0	09:55	0.04	0.00	0.45
C119_2	CONDUIT	0.470	0	09:15	1.67	0.61	0.96
C12	CHANNEL	0.084	0	09:07	0.37	0.01	0.13
C123	CONDUIT	0.220	0	09:24	1.56	1.30	1.00
C124	CONDUIT	0.220	0	09:23	1.43	1.82	1.00
C125	CONDUIT	0.740	0	09:21	2.33	0.49	1.00
C126	CONDUIT	0.740	0	09:21	2.00	0.68	1.00
C127	CONDUIT	0.219	0	10:52	1.91	0.54	0.52
C128	CONDUIT	0.219	0	10:52	1.82	0.57	0.54
C129	CONDUIT	0.219	0	10:52	1.83	0.57	0.54
C13	CHANNEL	0.174	0	09:06	0.36	0.01	0.22
C130	CONDUIT	0.145	0	09:25	1.25	0.88	0.80
C14	CHANNEL	0.716	0	09:11	0.49	0.01	0.14
C145	CONDUIT	0.030	0	09:21	0.94	0.46	0.46
C147	CONDUIT	0.030	0	09:21	1.05	0.37	0.42
C15	CHANNEL	0.272	0	09:05	0.48	0.02	0.23
C150	CONDUIT	0.030	0	09:21	0.94	0.43	0.55
C151	CONDUIT	0.116	0	09:24	1.44	0.87	0.68
C156	CONDUIT	0.116	0	09:23	1.41	0.87	0.70
C159	CONDUIT	0.116	0	09:22	1.69	1.44	0.93
C16	CHANNEL	0.171	0	09:05	0.40	0.01	0.19
C160	CONDUIT	0.008	0	09:10	0.14	0.12	1.00

C161	CONDUIT	0.000	0	00:00	0.00	0.00	0.49
C164	CONDUIT	0.171	0	09:09	3.66	0.24	0.33
C165	CONDUIT	0.030	0	09:05	0.94	0.18	0.33
C167	CONDUIT	0.207	0	09:12	1.47	0.87	0.62
C17	CHANNEL	0.408	0	09:09	0.32	0.01	0.13
C18	CHANNEL	0.201	0	09:06	0.43	0.01	0.20
C185	CONDUIT	0.086	0	09:25	0.95	0.46	0.44
C186	CONDUIT	0.086	0	09:25	0.85	0.45	0.48
C187	CONDUIT	0.124	0	09:14	1.04	0.57	0.54
C188	CONDUIT	0.124	0	09:15	1.11	0.57	0.55
C189	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C19	CHANNEL	0.166	0	09:19	0.26	0.00	0.09
C190	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C193	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C194	CONDUIT	0.001	0	09:20	0.21	0.01	0.35
C2	CONDUIT	0.136	0	09:11	0.97	0.27	0.62
C20	CHANNEL	0.160	0	09:06	0.53	0.01	0.15
C200-	CONDUIT	0.417	0	09:12	1.92	0.87	0.77
C205	CONDUIT	0.043	0	09:06	0.93	0.28	0.33
C206	CONDUIT	0.043	0	09:06	0.89	0.31	0.34
C207	CONDUIT	0.043	0	09:06	0.87	0.29	0.43
C21	CHANNEL	0.026	0	09:08	0.22	0.00	0.06
C211	CONDUIT	0.083	0	10:08	0.25	0.02	0.61
C212	CONDUIT	0.083	0	10:08	0.91	0.13	0.23
C213	CONDUIT	0.083	0	10:09	0.93	0.13	0.22
C22	CHANNEL	0.128	0	09:21	0.28	0.00	0.07
C228	CONDUIT	0.037	0	09:13	0.53	0.32	1.00
C229	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C23	CHANNEL	0.055	0	09:21	0.16	0.00	0.06
C230	CONDUIT	0.000	0	00:00	0.00	0.00	0.12
C231	CONDUIT	0.001	0	09:40	0.05	0.01	0.75
C232	CONDUIT	0.001	0	09:40	0.08	0.01	0.39
C233	CONDUIT	0.002	0	09:40	0.07	0.03	0.62
C234	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C235	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C239	CONDUIT	0.001	0	09:57	0.02	0.00	0.39
C24	CONDUIT	0.018	0	09:09	1.21	0.02	0.12
C240	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C244	CONDUIT	0.000	0	09:56	0.03	0.00	0.27
C245	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C246	CONDUIT	0.000	0	00:00	0.00	0.00	0.00

C248	CONDUIT	1.051	0	09:09	2.30	1.15	0.80
C25	CHANNEL	0.083	0	09:09	0.29	0.00	0.06
C250	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C251	CONDUIT	0.021	0	09:05	1.11	0.22	0.32
C252	CONDUIT	0.079	0	09:05	1.11	0.68	1.00
C253	CONDUIT	0.193	0	09:05	3.11	2.13	0.82
C254	CONDUIT	0.193	0	09:05	4.04	0.74	0.64
C255	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C256	CONDUIT	0.096	0	09:05	1.79	0.48	0.57
C257	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C258	CONDUIT	0.137	0	09:05	1.97	3.06	0.96
C259	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C26	CONDUIT	0.007	0	09:23	0.61	0.03	0.14
C260	CONDUIT	0.070	0	09:11	1.12	1.10	0.83
C263	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C269	CONDUIT	0.010	0	09:06	1.30	0.03	0.12
C27	CONDUIT	0.010	0	09:09	0.81	0.06	0.17
C28	CONDUIT	0.074	0	09:10	1.15	0.15	0.28
C281	CONDUIT	0.072	0	09:09	1.14	1.10	0.91
C284	CONDUIT	0.074	0	09:08	1.18	1.29	0.85
C285	CONDUIT	0.002	0	09:06	0.10	0.03	0.41
C288	CONDUIT	0.014	0	09:19	0.74	0.22	0.31
C289	CONDUIT	0.014	0	09:20	0.85	0.05	0.16
C29	CHANNEL	0.050	0	09:13	0.23	0.00	0.05
C292	CONDUIT	0.014	0	09:20	0.72	0.07	0.18
C293	CONDUIT	0.014	0	09:20	0.91	0.05	0.15
C3	CONDUIT	0.074	0	09:12	1.06	0.15	0.48
C30	CHANNEL	0.010	0	09:05	0.04	0.00	0.05
C31	CHANNEL	0.013	0	09:07	0.05	0.00	0.05
C32	CHANNEL	0.011	0	09:06	0.08	0.00	0.04
C33	CHANNEL	0.009	0	09:06	0.04	0.00	0.05
C34	CHANNEL	0.065	0	09:11	0.21	0.00	0.06
C343	CONDUIT	0.072	0	09:11	1.04	1.11	0.78
C344	CONDUIT	0.214	0	09:14	0.61	0.60	0.95
C345	CONDUIT	0.800	0	09:21	1.65	1.15	0.85
C346	CONDUIT	0.824	0	09:22	3.05	0.82	0.50
C347	CONDUIT	0.808	0	09:22	4.99	0.25	0.34
C348	CONDUIT	0.334	0	09:18	4.23	0.37	0.50
C349	CONDUIT	0.128	0	09:08	2.43	0.29	0.39
C35	CHANNEL	0.044	0	09:07	0.13	0.00	0.07
C350	CONDUIT	0.073	0	09:11	1.24	0.63	0.49

C351	CONDUIT	0.000	0	00:00	0.00	0.00	0.21
C352	CONDUIT	0.082	0	09:09	1.50	0.49	0.50
C353	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C36	CHANNEL	0.067	0	09:14	0.16	0.00	0.07
C37	CHANNEL	0.042	0	09:07	0.15	0.00	0.12
C38	CONDUIT	0.000	0	00:00	0.00	0.00	0.06
C39	CHANNEL	0.028	0	09:13	0.08	0.00	0.12
C4	CONDUIT	0.145	0	09:24	1.28	0.90	0.68
C40	CONDUIT	0.007	0	09:22	0.66	0.03	0.12
C41	CHANNEL	0.053	0	09:18	0.09	0.00	0.12
C42	CHANNEL	0.122	0	09:13	0.53	0.00	0.05
C43	CONDUIT	0.011	0	09:07	0.78	0.14	0.25
C437	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C44	CONDUIT	0.144	0	09:24	1.02	0.05	0.21
C47	CONDUIT	0.011	0	09:07	0.94	0.18	0.29
C48	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C5	CONDUIT	0.232	0	09:05	0.45	0.02	0.56
C50	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C53	CONDUIT	0.017	0	09:09	0.65	0.03	0.18
C54	CONDUIT	0.023	0	09:08	0.77	0.09	0.20
C6	CONDUIT	0.042	0	09:15	0.50	0.03	0.26
C60	CONDUIT	0.018	0	09:08	1.01	0.09	0.17
C63	CONDUIT	0.018	0	09:07	0.99	0.11	0.22
C65	CONDUIT	0.011	0	09:06	0.75	0.14	0.27
C653	CONDUIT	1.012	0	09:08	2.39	1.44	0.91
C655	CONDUIT	0.307	0	09:11	1.49	0.89	0.68
C656	CONDUIT	0.281	0	09:11	1.25	1.22	0.74
C657	CONDUIT	0.000	0	00:00	0.00	0.00	0.01
C658	CONDUIT	1.051	0	09:08	2.30	1.17	0.80
C660	CONDUIT	0.168	0	10:01	1.55	0.75	0.64
C662	CONDUIT	0.164	0	09:59	1.43	5.53	0.68
C663	CONDUIT	0.134	0	09:56	1.70	0.48	0.59
C664	CONDUIT	0.122	0	09:55	1.60	0.48	0.48
C665	CONDUIT	0.000	0	00:00	0.00	0.00	0.12
C666	CONDUIT	1.061	0	09:09	2.47	0.91	0.75
C667	CONDUIT	0.039	0	09:11	0.90	0.10	0.22
C668	CONDUIT	0.101	0	09:09	5.22	0.02	0.09
C669	CONDUIT	0.101	0	09:09	2.97	0.03	0.11
C670	CONDUIT	0.000	0	00:00	0.00	0.00	0.20
C671	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C672	CONDUIT	0.000	0	00:00	0.00	0.00	0.00

C673	CONDUIT	0.039	0	09:10	0.93	0.21	0.31
C674	CONDUIT	0.468	0	09:23	4.97	0.62	0.57
C68	CONDUIT	0.007	0	09:07	0.69	0.09	0.21
C685	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C686	CONDUIT	0.017	0	09:08	1.42	0.06	0.17
C687	CONDUIT	0.017	0	09:08	1.85	0.04	0.14
C688	CONDUIT	0.017	0	09:09	1.08	0.03	0.13
C689	CONDUIT	0.317	0	09:14	1.55	0.72	0.56
C69	CONDUIT	0.007	0	09:06	0.70	0.09	0.21
C690	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C7	CONDUIT	0.041	0	09:18	1.59	0.01	0.15
C70	CONDUIT	0.007	0	09:05	0.77	0.14	0.25
C700	CONDUIT	0.164	0	09:59	1.52	0.73	0.64
C701	CONDUIT	0.176	0	10:01	2.06	0.51	0.42
C702	CONDUIT	0.176	0	10:01	3.32	0.29	0.37
C703	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C704	CONDUIT	0.005	0	09:04	0.08	0.02	0.35
C705	CONDUIT	0.040	0	09:09	0.69	0.20	0.26
C707	CONDUIT	0.039	0	09:10	0.73	0.16	0.25
C708	CONDUIT	0.101	0	09:09	1.25	0.23	0.33
C709	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C710	CONDUIT	0.017	0	09:13	1.35	0.20	0.31
C711	CONDUIT	0.017	0	09:14	1.11	0.26	0.40
C712	CONDUIT	0.159	0	09:23	1.44	0.83	1.00
C713	CONDUIT	0.016	0	09:13	0.64	0.35	0.79
C714	CONDUIT	0.143	0	09:13	0.54	0.59	0.98
C715	CONDUIT	0.805	0	09:22	2.00	1.26	0.70
C716	CONDUIT	0.736	0	09:08	2.34	0.78	0.68
C717	CONDUIT	0.324	0	09:11	1.59	0.80	0.70
C718	CONDUIT	0.001	0	09:01	0.06	0.02	1.00
C727	CONDUIT	0.016	0	09:10	1.04	0.03	0.12
C73	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C734	CONDUIT	0.316	0	09:13	1.53	0.79	0.56
C735	CONDUIT	0.317	0	09:13	1.45	0.83	0.59
C736	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C737	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C738	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C739	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C740	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C741	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C751	CONDUIT	0.164	0	09:59	2.09	0.27	0.50

C752	CONDUIT	0.156	0	10:04	1.01	0.73	0.96
C753	CONDUIT	0.126	0	09:56	1.68	0.46	0.48
C754	CONDUIT	0.012	0	09:07	0.97	0.13	0.44
C755	CONDUIT	0.037	0	09:13	0.49	0.34	0.93
C756	CONDUIT	0.039	0	09:11	0.85	0.33	0.45
C757	CONDUIT	0.802	0	09:08	1.99	1.12	0.92
C758	CONDUIT	0.087	0	09:13	1.19	0.15	0.26
C759	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C76	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C760	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C762	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C763	CONDUIT	0.334	0	09:18	3.57	0.62	0.57
C764	CONDUIT	0.805	0	09:21	1.76	1.13	0.80
C765	CONDUIT	0.006	0	09:43	0.34	0.15	1.00
C766	CONDUIT	0.006	0	09:45	0.25	0.33	1.00
C767	CONDUIT	1.051	0	09:08	2.21	1.20	0.83
C77	CONDUIT	0.024	0	09:07	0.79	0.09	0.20
C8	CONDUIT	0.536	0	09:19	3.04	0.07	0.26
C80	CONDUIT	0.024	0	09:07	0.86	0.12	0.23
C9	CHANNEL	0.299	0	09:08	0.21	0.00	0.17
C94	CONDUIT	0.074	0	09:11	1.17	0.19	0.28
CB72	CONDUIT	0.247	0	09:13	1.97	0.61	0.56
MC_C6	CHANNEL	0.000	0	00:00	0.00	0.00	0.09
MC1	CHANNEL	0.256	0	09:21	0.18	0.01	0.13
MC10	CHANNEL	0.071	0	09:07	0.27	0.00	0.05
MC100	CHANNEL	0.103	0	09:07	0.24	0.00	0.07
MC101	CHANNEL	0.058	0	09:09	0.10	0.00	0.13
MC102	CHANNEL	0.071	0	09:07	0.23	0.00	0.06
MC103	CHANNEL	0.065	0	09:07	0.11	0.00	0.10
MC104	CHANNEL	0.241	0	09:16	0.32	0.00	0.10
MC105	CHANNEL	0.112	0	09:14	0.09	0.00	0.12
MC107	CHANNEL	0.077	0	09:06	0.50	0.00	0.04
MC108	CHANNEL	0.025	0	09:06	0.28	0.00	0.03
MC109	CHANNEL	0.045	0	09:06	0.31	0.00	0.04
MC11	CHANNEL	0.035	0	09:07	0.19	0.00	0.04
MC12	CHANNEL	0.033	0	09:07	0.15	0.00	0.05
MC120	CHANNEL	0.086	0	09:09	0.12	0.00	0.27
MC121	CHANNEL	0.025	0	09:09	0.03	0.00	0.10
MC122	CHANNEL	0.024	0	09:09	0.07	0.00	0.06
MC123	CHANNEL	0.161	0	09:07	1.03	0.01	0.11
MC124	CHANNEL	0.062	0	09:06	0.27	0.00	0.05

MC125	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC126	CHANNEL	0.319	0	09:14	0.25	0.00	0.13
MC128	CHANNEL	0.011	0	09:11	0.07	0.00	0.12
MC129	CHANNEL	0.013	0	09:07	0.11	0.00	0.03
MC13	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC130	CHANNEL	0.020	0	09:11	0.01	0.00	0.28
MC131	CHANNEL	0.239	0	09:10	1.25	0.01	0.11
MC132	CHANNEL	0.184	0	09:10	0.46	0.02	0.22
MC133	CHANNEL	0.113	0	09:09	0.38	0.00	0.06
MC135	CHANNEL	0.024	0	09:06	0.17	0.00	0.05
MC136	CHANNEL	0.175	0	09:20	0.29	0.00	0.09
MC137	CHANNEL	0.023	0	09:08	0.10	0.00	0.05
MC139	CHANNEL	0.129	0	09:13	0.09	0.01	0.13
MC14	CHANNEL	0.505	0	09:06	0.46	0.01	0.12
MC141	CHANNEL	0.222	0	09:06	0.41	0.00	0.09
MC142	CHANNEL	0.094	0	09:07	0.25	0.00	0.07
MC143	CHANNEL	0.123	0	09:10	0.72	0.01	0.11
MC144	CHANNEL	0.132	0	09:10	0.78	0.01	0.12
MC145	CHANNEL	1.520	0	09:07	2.23	0.06	0.25
MC146	CHANNEL	0.187	0	09:06	0.10	0.00	0.30
MC147	CHANNEL	0.097	0	09:13	0.22	0.00	0.08
MC148	CHANNEL	0.202	0	09:06	0.17	0.01	0.56
MC149	CHANNEL	0.000	0	00:00	0.00	0.00	0.12
MC15	CHANNEL	0.059	0	09:08	0.12	0.00	0.08
MC150	CHANNEL	0.137	0	09:19	0.08	0.00	0.15
MC151	CHANNEL	0.026	0	09:13	0.08	0.00	0.06
MC152	CHANNEL	0.031	0	09:06	0.15	0.00	0.04
MC153	CHANNEL	0.061	0	09:07	0.10	0.00	0.12
MC154	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC155	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC156	CHANNEL	0.030	0	09:09	0.05	0.00	0.09
MC157	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC158	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC159	CHANNEL	0.182	0	09:18	0.33	0.00	0.08
MC16	CHANNEL	0.117	0	09:08	0.17	0.00	0.09
MC160	CHANNEL	0.018	0	09:13	0.05	0.00	0.12
MC161	CHANNEL	0.014	0	09:13	0.07	0.00	0.04
MC162	CHANNEL	0.006	0	09:13	0.01	0.00	0.13
MC163	CHANNEL	0.006	0	09:13	0.04	0.00	0.05
MC164	CHANNEL	0.002	0	09:09	0.03	0.00	0.09
MC165	CHANNEL	0.462	0	09:07	0.51	0.05	0.35

MC166	CHANNEL	0.004	0	09:09	0.07	0.00	0.07
MC167	CHANNEL	0.003	0	09:09	0.01	0.00	0.13
MC168	CHANNEL	0.511	0	09:13	0.17	0.01	0.33
MC169	CONDUIT	0.580	0	09:14	2.50	0.01	0.09
MC17	CHANNEL	0.112	0	09:08	0.20	0.00	0.08
MC170	CHANNEL	0.008	0	09:13	0.02	0.00	0.13
MC171	CHANNEL	0.163	0	09:05	0.46	0.00	0.06
MC172	CHANNEL	0.618	0	09:07	1.09	0.03	0.22
MC173	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC174	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC175	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC176	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC177	CHANNEL	0.366	0	09:13	0.38	0.01	0.11
MC178	CHANNEL	0.194	0	09:06	0.27	0.00	0.12
MC179	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC18	CHANNEL	0.007	0	09:07	0.04	0.00	0.04
MC180	CHANNEL	0.000	0	00:00	0.00	0.00	0.13
MC181	CHANNEL	0.111	0	09:06	0.24	0.00	0.14
MC182_1	CHANNEL	0.209	0	09:08	0.16	0.00	0.14
MC182_2	CHANNEL	0.162	0	09:13	0.37	0.00	0.07
MC182_3	CHANNEL	0.168	0	09:12	0.13	0.00	0.13
MC182_5	CHANNEL	0.260	0	09:05	0.33	0.00	0.11
MC183	CHANNEL	0.309	0	09:16	0.18	0.01	0.25
MC184	CHANNEL	0.470	0	09:07	0.43	0.01	0.14
MC185	CHANNEL	0.095	0	09:05	0.45	0.01	0.16
MC186	CHANNEL	0.129	0	09:06	0.78	0.01	0.12
MC187	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC188	CHANNEL	0.202	0	09:12	0.22	0.00	0.14
MC189	CHANNEL	0.099	0	09:08	0.24	0.00	0.27
MC19	CHANNEL	0.057	0	09:06	0.09	0.00	0.09
MC190	CHANNEL	0.034	0	09:08	0.06	0.01	0.25
MC191	CHANNEL	0.550	0	09:09	0.40	0.01	0.15
MC192	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC193	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC194_1	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC194_2	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC195	CHANNEL	0.006	0	09:08	0.03	0.00	0.05
MC196	CHANNEL	0.072	0	09:05	0.05	0.01	0.65
MC197	CHANNEL	0.271	0	09:06	0.20	0.03	0.49
MC198	CHANNEL	0.021	0	09:06	0.08	0.01	0.19
MC199	CHANNEL	0.066	0	09:06	0.26	0.01	0.16

MC2	CHANNEL	0.105	0	09:11	0.15	0.00	0.11
MC20	CHANNEL	0.118	0	09:09	0.20	0.00	0.08
MC200	CHANNEL	0.251	0	09:07	0.62	0.02	0.21
MC201	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC202	CHANNEL	0.025	0	09:16	0.01	0.00	0.51
MC203	CHANNEL	0.028	0	09:09	0.07	0.00	0.06
MC204	CHANNEL	0.020	0	09:09	0.03	0.00	0.09
MC205	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC206	CHANNEL	0.641	0	09:12	0.66	0.01	0.08
MC207_1	CHANNEL	0.644	0	09:11	0.65	0.01	0.08
MC207_3	CHANNEL	0.655	0	09:11	0.67	0.01	0.09
MC207_4	CHANNEL	0.641	0	09:11	0.38	0.01	0.17
MC208	CHANNEL	0.838	0	09:11	0.63	0.49	0.32
MC209	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC21	CHANNEL	0.221	0	09:07	0.89	0.00	0.05
MC210	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC211	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC212	CHANNEL	0.673	0	09:20	0.62	0.10	0.35
MC213	CHANNEL	0.278	0	09:22	0.50	0.03	0.21
MC214_1	CHANNEL	0.924	0	09:18	0.43	0.03	0.17
MC214_2	CHANNEL	0.341	0	09:20	0.56	0.06	0.23
MC215	CHANNEL	1.071	0	09:12	0.49	0.01	0.19
MC216	CHANNEL	0.141	0	09:10	0.14	0.00	0.12
MC217	CHANNEL	0.152	0	09:10	0.14	0.00	0.15
MC219	CHANNEL	0.106	0	09:10	0.27	0.00	0.08
MC22	CHANNEL	0.033	0	09:09	0.19	0.00	0.04
MC220	CHANNEL	0.348	0	09:10	0.33	0.02	0.59
MC221	CHANNEL	0.005	0	09:07	0.01	0.00	0.13
MC223	CHANNEL	0.004	0	09:07	0.13	0.00	0.05
MC224	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC225	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC226	CHANNEL	0.247	0	09:17	0.20	0.00	0.12
MC227	CHANNEL	0.341	0	09:17	0.18	0.02	0.16
MC228	CHANNEL	0.100	0	09:14	0.13	0.00	0.10
MC229	CHANNEL	0.015	0	09:23	0.07	0.00	0.07
MC23	CHANNEL	0.175	0	09:08	0.47	0.02	0.17
MC230	CHANNEL	0.360	0	09:12	0.45	0.00	0.10
MC231	CHANNEL	0.121	0	09:06	0.13	0.01	0.56
MC232	CHANNEL	0.122	0	09:11	0.22	0.00	0.08
MC24	CHANNEL	1.988	0	09:07	1.02	0.02	0.16
MC25	CHANNEL	0.035	0	09:06	0.13	0.00	0.05

MC26	CHANNEL	0.013	0	09:06	0.04	0.00	0.06
MC27	CHANNEL	0.264	0	09:11	0.50	0.00	0.08
MC28	CHANNEL	0.784	0	09:25	0.83	0.00	0.11
MC29	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC3	CHANNEL	0.818	0	09:09	0.71	0.01	0.12
MC30	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC31	CHANNEL	0.026	0	09:06	0.13	0.00	0.13
MC32	CHANNEL	0.130	0	09:10	0.23	0.00	0.08
MC33	CHANNEL	0.211	0	09:11	0.34	0.00	0.10
MC34	CHANNEL	0.089	0	09:09	0.37	0.00	0.05
MC35	CHANNEL	0.062	0	09:15	0.16	0.00	0.13
MC36	CHANNEL	0.063	0	09:13	0.12	0.00	0.08
MC37	CHANNEL	0.144	0	09:06	0.59	0.01	0.13
MC38	CHANNEL	0.752	0	09:24	0.61	0.01	0.12
MC39	CHANNEL	0.565	0	09:09	0.26	0.01	0.23
MC4	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC40	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC41	CHANNEL	0.040	0	09:14	0.04	0.00	0.14
MC42	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC43	CHANNEL	0.000	0	00:00	0.00	0.00	0.13
MC44	CHANNEL	0.007	0	09:20	0.02	0.00	0.07
MC45	CHANNEL	0.018	0	09:09	0.06	0.00	0.06
MC46	CHANNEL	0.027	0	09:08	0.07	0.00	0.08
MC47	CHANNEL	0.703	0	09:23	0.50	0.01	0.13
MC48	CHANNEL	0.000	0	00:00	0.00	0.00	0.26
MC49	CHANNEL	0.000	0	00:00	0.00	0.00	0.26
MC5	CHANNEL	0.070	0	09:05	0.25	0.00	0.05
MC50	CHANNEL	0.013	0	09:18	0.04	0.00	0.06
MC51	CHANNEL	0.015	0	09:06	0.05	0.00	0.06
MC52	CHANNEL	0.015	0	09:06	0.16	0.00	0.03
MC53	CHANNEL	0.024	0	09:07	0.07	0.00	0.08
MC54	CHANNEL	0.041	0	09:09	0.10	0.00	0.07
MC55	CHANNEL	0.014	0	09:14	0.03	0.00	0.13
MC56	CHANNEL	0.001	0	09:08	0.01	0.00	0.02
MC57	CHANNEL	0.020	0	09:14	0.05	0.00	0.07
MC58	CHANNEL	0.007	0	09:06	0.05	0.00	0.10
MC59	CHANNEL	0.028	0	09:07	0.11	0.00	0.05
MC6	CHANNEL	0.437	0	09:07	1.08	0.02	0.17
MC62	CHANNEL	0.000	0	00:00	0.00	0.00	0.13
MC64	CHANNEL	0.383	0	09:10	0.32	0.00	0.15
MC65	CHANNEL	0.003	0	09:08	0.02	0.00	0.06

MC66	CHANNEL	0.009	0	09:08	0.09	0.00	0.09
MC67	CHANNEL	0.003	0	09:08	0.01	0.00	0.25
MC68	CHANNEL	0.125	0	09:09	0.18	0.00	0.09
MC69	CHANNEL	0.046	0	09:18	0.11	0.00	0.18
MC7	CHANNEL	0.481	0	09:08	0.34	0.09	0.42
MC70	CHANNEL	0.192	0	09:08	0.45	0.00	0.07
MC71	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC72	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC73	CHANNEL	0.683	0	09:22	0.59	0.01	0.12
MC74	CHANNEL	0.065	0	09:08	0.07	0.00	0.14
MC75	CHANNEL	0.633	0	09:19	0.44	0.01	0.14
MC76	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC77	CHANNEL	0.026	0	09:07	0.09	0.00	0.05
MC78	CHANNEL	0.084	0	09:07	0.18	0.00	0.14
MC79	CHANNEL	0.077	0	09:09	0.23	0.00	0.06
MC8	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC80	CHANNEL	0.342	0	09:12	0.32	0.23	0.35
MC82	CHANNEL	0.000	0	00:00	0.00	0.00	0.13
MC83	CHANNEL	0.000	0	00:00	0.00	0.00	0.13
MC84	CHANNEL	0.186	0	09:08	0.55	0.00	0.06
MC85	CHANNEL	0.044	0	09:08	0.08	0.00	0.08
MC86	CHANNEL	0.278	0	09:08	1.24	0.01	0.12
MC87	CHANNEL	0.092	0	09:06	0.12	0.00	0.14
MC89	CHANNEL	0.067	0	09:09	0.07	0.00	0.11
MC9	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC90	CHANNEL	0.046	0	09:09	0.15	0.00	0.06
MC91	CHANNEL	0.043	0	09:14	0.16	0.00	0.05
MC92	CHANNEL	0.071	0	09:08	0.28	0.00	0.05
MC93	CHANNEL	0.043	0	09:08	0.24	0.00	0.04
MC97	CHANNEL	0.040	0	09:07	0.22	0.00	0.04
MC98	CHANNEL	0.076	0	09:07	0.42	0.00	0.04
MC99	CHANNEL	0.012	0	09:07	0.05	0.00	0.05
MJ-C5	CONDUIT	0.050	0	09:13	0.39	0.16	0.46
MJ-C6	CONDUIT	0.116	0	09:11	0.63	0.01	0.17
MJ-C7	CONDUIT	0.104	0	09:21	0.49	0.10	0.29
MJ-C8	CONDUIT	0.103	0	09:22	0.97	0.03	0.17
OL5	ORIFICE	0.083	0	10:08			
OR1	ORIFICE	0.116	0	09:21			
OR2	ORIFICE	0.126	0	09:25			1.00
OR3	ORIFICE	0.000	0	00:00			0.00
OL1	DUMMY	0.219	0	10:52			

OL10	DUMMY	0.027	0	09:09
OL11	DUMMY	0.154	0	09:11
OL12	DUMMY	0.073	0	09:12
OL13	DUMMY	0.073	0	09:11
OL14	DUMMY	0.591	0	09:22
OL15	DUMMY	0.251	0	09:07
OL16	DUMMY	0.021	0	09:08
OL17	DUMMY	0.053	0	09:07
OL18	DUMMY	0.074	0	09:07
OL19	DUMMY	0.086	0	09:24
OL2	DUMMY	0.024	0	09:10
OL20	DUMMY	0.043	0	09:05
OL21	DUMMY	0.000	0	00:00
OL22	DUMMY	0.011	0	09:08
OL23	DUMMY	0.036	0	09:15
OL24	DUMMY	0.011	0	09:06
OL25	DUMMY	0.118	0	09:54
OL26	DUMMY	0.012	0	09:06
OL27	DUMMY	0.276	0	09:18
OL28	DUMMY	0.265	0	09:36
OL29	DUMMY	0.087	0	09:12
OL3	DUMMY	0.281	0	09:11
OL30	DUMMY	0.000	0	00:00
OL31	DUMMY	0.017	0	09:08
OL32	DUMMY	0.163	0	09:09
OL33	DUMMY	0.000	0	00:00
OL34	DUMMY	0.316	0	09:12
OL35	DUMMY	0.017	0	09:13
OL36	DUMMY	0.005	0	09:19
OL37	DUMMY	0.141	0	09:23
OL38	DUMMY	0.309	0	09:23
OL39	DUMMY	0.021	0	09:10
OL4	DUMMY	0.018	0	09:06
OL40	DUMMY	0.068	0	09:07
OL41	DUMMY	0.000	0	00:00
OL42	DUMMY	0.006	0	09:24
OL43	DUMMY	0.003	0	09:09
OL44	DUMMY	0.060	0	09:10
OL45	DUMMY	0.099	0	09:12
OL46	DUMMY	0.076	0	09:22
OL47	DUMMY	0.039	0	09:09

OL48	DUMMY	0.000	0	00:00
OL49	DUMMY	0.000	0	00:00
OL50	DUMMY	0.001	0	09:15
OL51	DUMMY	0.100	0	09:08
OL52	DUMMY	0.069	0	09:08
OL53	DUMMY	0.082	0	09:09
OL54	DUMMY	0.017	0	09:09
OL55	DUMMY	0.024	0	09:07
OL56	DUMMY	0.075	0	09:11
OL57	DUMMY	0.096	0	09:20
OL58	DUMMY	0.014	0	09:18
OL59	DUMMY	0.007	0	09:21
OL6	DUMMY	0.010	0	09:05
OL60	DUMMY	0.011	0	09:06
OL61	DUMMY	0.011	0	09:06
OL62	DUMMY	0.008	0	09:05
OL63	DUMMY	0.025	0	09:06
OL7	DUMMY	0.030	0	09:20
OL8	DUMMY	0.003	0	09:17
OL9	DUMMY	0.147	0	09:17
OR4	DUMMY	0.071	0	09:19

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Flow Classification Summary
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	Adjusted	Fraction of Time in Flow Class								
Conduit	/Actual Length	Dry	Up Dry	Down Dry	Sub Crit	Sup Crit	Up Crit	Down Crit	Norm Ltd	Inlet Ctrl
C_dummy	1.00	0.00	0.00	0.00	0.10	0.90	0.00	0.00	0.03	0.00
C1	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.54	0.00
C10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.45	0.00
C100	1.00	0.00	0.00	0.00	0.69	0.00	0.00	0.31	0.00	0.00
C106	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.96	0.00
C108	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C11	1.00	0.00	0.00	0.00	0.34	0.66	0.00	0.00	0.19	0.00
C110	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C111	1.00	0.85	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C113	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C114	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C115	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C116	1.00	0.69	0.07	0.00	0.24	0.00	0.00	0.00	0.47	0.00
C118	1.00	0.34	0.27	0.00	0.39	0.00	0.00	0.00	0.39	0.00
C119_1	1.00	0.41	0.20	0.00	0.39	0.00	0.00	0.00	0.39	0.00
C119_2	1.00	0.00	0.00	0.00	0.72	0.00	0.00	0.27	0.00	0.00
C12	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.95	0.00
C123	1.00	0.01	0.00	0.00	0.68	0.00	0.00	0.32	0.13	0.00
C124	1.00	0.00	0.00	0.00	0.57	0.00	0.00	0.42	0.00	0.00
C125	1.00	0.00	0.00	0.00	0.70	0.03	0.00	0.27	0.00	0.00
C126	1.00	0.00	0.00	0.00	0.71	0.00	0.00	0.29	0.00	0.00
C127	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C128	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C129	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.21	0.00
C13	1.00	0.00	0.00	0.00	0.44	0.03	0.00	0.52	0.27	0.00
C130	1.00	0.00	0.00	0.00	0.41	0.00	0.00	0.58	0.24	0.00
C14	1.00	0.00	0.00	0.00	0.29	0.00	0.00	0.71	0.01	0.00
C145	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C147	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C15	1.00	0.00	0.00	0.00	0.90	0.10	0.00	0.00	0.79	0.00
C150	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.90	0.03	0.00
C151	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C156	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C159	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C16	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.92	0.00
C160	1.00	0.55	0.25	0.00	0.20	0.00	0.00	0.00	0.58	0.00
C161	1.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C164	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.29	0.00
C165	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.99	0.00
C167	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.04	0.00
C17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.94	0.00
C18	1.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.91	0.00
C185	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.00	0.00
C186	1.00	0.00	0.00	0.00	0.41	0.00	0.00	0.58	0.02	0.00
C187	1.00	0.01	0.00	0.00	0.98	0.00	0.00	0.02	0.84	0.00
C188	1.00	0.02	0.00	0.00	0.04	0.00	0.00	0.94	0.01	0.00
C189	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C190	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C193	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C194	1.00	0.25	0.01	0.00	0.16	0.00	0.00	0.58	0.06	0.00
C2	1.00	0.00	0.00	0.00	0.71	0.00	0.00	0.29	0.41	0.00
C20	1.00	0.00	0.00	0.00	0.54	0.46	0.00	0.00	0.21	0.00
C200-	1.00	0.00	0.00	0.00	0.02	0.00	0.00	0.98	0.00	0.00
C205	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C206	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C207	1.00	0.00	0.00	0.00	0.11	0.00	0.00	0.89	0.03	0.00
C21	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.74	0.00
C211	1.00	0.01	0.27	0.00	0.72	0.00	0.01	0.00	0.00	0.00
C212	1.00	0.27	0.00	0.00	0.24	0.00	0.00	0.49	0.00	0.00
C213	1.00	0.27	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00
C22	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.72	0.00
C228	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.80	0.00
C229	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C23	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
C230	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
C232	1.00	0.58	0.24	0.00	0.18	0.00	0.00	0.00	0.53	0.00
C233	1.00	0.00	0.58	0.00	0.42	0.00	0.00	0.00	0.36	0.00
C234	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C235	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C239	1.00	0.87	0.07	0.00	0.06	0.00	0.00	0.00	0.58	0.00
C24	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.94	0.00
C240	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C244	1.00	0.32	0.03	0.00	0.05	0.00	0.00	0.61	0.58	0.00
C245	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C246	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C248	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C25	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.62	0.00
C250	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C251	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C252	1.00	0.00	0.00	0.00	0.02	0.06	0.00	0.92	0.03	0.00
C253	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.02	0.00
C254	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C255	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C256	1.00	0.00	0.00	0.00	0.01	0.01	0.00	0.98	0.00	0.00
C257	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C258	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C259	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.01	0.00
C260	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00

C263	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C269	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C27	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C28	1.00	0.00	0.00	0.00	0.85	0.15	0.00	0.00	0.96	0.00
C281	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.00	0.00
C284	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.99	0.00	0.00
C285	1.00	0.25	0.01	0.00	0.07	0.00	0.00	0.67	0.02	0.00
C288	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C289	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C29	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.18	0.00
C292	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C293	1.00	0.01	0.00	0.00	0.06	0.94	0.00	0.00	0.13	0.00
C3	1.00	0.00	0.00	0.00	0.48	0.01	0.00	0.51	0.23	0.00
C30	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C34	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.58	0.00
C343	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.95	0.00	0.00
C344	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
C345	1.00	0.00	0.00	0.00	0.51	0.00	0.00	0.49	0.00	0.00
C346	1.00	0.00	0.00	0.00	0.04	0.95	0.00	0.00	0.03	0.00
C347	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.11	0.00
C348	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
C349	1.00	0.00	0.00	0.00	0.15	0.85	0.00	0.00	0.74	0.00
C35	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
C350	1.00	0.00	0.00	0.00	0.77	0.22	0.00	0.00	0.02	0.00
C351	1.00	0.83	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C352	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.26	0.00
C353	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C36	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C37	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.72	0.00
C38	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C39	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.14	0.00
C4	1.00	0.00	0.00	0.00	0.06	0.00	0.00	0.94	0.00	0.00
C40	1.00	0.01	0.00	0.00	0.81	0.18	0.00	0.00	0.97	0.00
C41	1.00	0.01	0.00	0.00	0.98	0.00	0.00	0.00	0.85	0.00
C42	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.11	0.00
C43	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C437	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C44	1.00	0.08	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00

C47	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C48	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.97	0.00
C50	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C53	1.00	0.03	0.00	0.00	0.15	0.01	0.00	0.82	0.07	0.00
C54	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C60	1.00	0.03	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00
C63	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C65	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
C653	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C655	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C656	1.00	0.00	0.00	0.00	0.75	0.00	0.00	0.25	0.00	0.00
C657	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C658	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C660	1.00	0.01	0.00	0.00	0.02	0.05	0.00	0.93	0.00	0.00
C662	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.00	0.00
C663	1.00	0.00	0.00	0.00	0.02	0.03	0.00	0.95	0.02	0.00
C664	1.00	0.00	0.00	0.00	0.28	0.72	0.00	0.00	0.84	0.00
C665	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C666	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.19	0.00
C667	1.00	0.00	0.00	0.00	0.01	0.00	0.00	0.98	0.00	0.00
C668	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C669	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.07	0.00
C670	1.00	0.02	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C671	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C672	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C673	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C674	1.00	0.09	0.00	0.00	0.00	0.91	0.00	0.00	0.27	0.00
C68	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C685	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C686	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C687	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C688	1.00	0.00	0.00	0.00	0.05	0.95	0.00	0.00	0.83	0.00
C689	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C69	1.00	0.00	0.00	0.00	0.85	0.15	0.00	0.00	0.91	0.00
C690	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C7	1.00	0.00	0.00	0.00	0.02	0.97	0.00	0.00	0.00	0.00
C70	1.00	0.00	0.00	0.00	0.39	0.61	0.00	0.00	0.01	0.00
C700	1.00	0.01	0.02	0.00	0.33	0.64	0.00	0.00	0.77	0.00
C701	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.00	0.00

C702	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.11	0.00
C703	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C704	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.09	0.00
C705	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C707	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C708	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C709	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C710	1.00	0.01	0.00	0.00	0.00	0.02	0.00	0.97	0.01	0.00
C711	1.00	0.01	0.00	0.00	0.02	0.01	0.00	0.96	0.01	0.00
C712	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
C713	1.00	0.01	0.00	0.00	0.14	0.00	0.00	0.85	0.05	0.00
C714	1.00	0.00	0.03	0.00	0.36	0.00	0.60	0.00	0.00	0.00
C715	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C716	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C717	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C718	1.00	0.04	0.77	0.00	0.19	0.00	0.00	0.00	0.58	0.00
C727	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C73	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C734	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C735	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.93	0.00	0.00
C736	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C737	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C739	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C740	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C741	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C751	1.00	0.01	0.00	0.00	0.00	0.97	0.00	0.02	0.94	0.00
C752	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
C753	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C754	1.00	0.00	0.00	0.00	0.72	0.27	0.00	0.00	0.61	0.00
C755	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.06	0.00
C756	1.00	0.01	0.00	0.00	0.08	0.00	0.00	0.92	0.00	0.00
C757	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.00	0.00
C758	1.00	0.00	0.00	0.00	0.71	0.29	0.00	0.00	0.01	0.00
C759	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C76	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C760	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C762	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C763	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.46	0.00
C764	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.93	0.00
C765	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.93	0.00

C766	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.84	0.00
C767	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.00	0.00
C77	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C8	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C9	1.00	0.00	0.00	0.00	0.34	0.66	0.00	0.00	0.12	0.00
C94	1.00	0.00	0.00	0.00	0.88	0.11	0.00	0.00	0.09	0.00
CB72	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC_C6	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC1	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.49	0.00
MC10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC100	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC101	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC102	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.10	0.00
MC103	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC104	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC105	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.04	0.00
MC107	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.88	0.00
MC108	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.09	0.00
MC109	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.76	0.00
MC11	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC12	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC120	1.00	0.00	0.09	0.00	0.91	0.00	0.00	0.00	0.81	0.00
MC121	1.00	0.00	0.09	0.00	0.91	0.00	0.00	0.00	0.86	0.00
MC122	1.00	0.00	0.09	0.00	0.91	0.00	0.00	0.00	0.86	0.00
MC123	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.00	0.00
MC124	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC125	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC126	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MC128	1.00	0.00	0.03	0.00	0.97	0.00	0.00	0.00	0.95	0.00
MC129	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC130	1.00	0.00	0.02	0.00	0.97	0.00	0.00	0.00	0.95	0.00
MC131	1.00	0.00	0.00	0.00	0.01	0.98	0.00	0.00	0.13	0.00
MC132	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
MC133	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.78	0.00
MC135	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.69	0.00
MC136	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.43	0.00
MC137	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC139	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.32	0.00
MC14	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.76	0.00

MC141	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.74	0.00
MC142	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC143	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.08	0.00
MC144	1.00	0.00	0.00	0.00	0.19	0.81	0.00	0.00	0.16	0.00
MC145	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.18	0.00
MC146	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.30	0.00
MC147	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC148	1.00	0.00	0.00	0.00	0.93	0.06	0.00	0.00	0.77	0.00
MC149	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC150	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC151	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.73	0.00
MC152	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.84	0.00
MC153	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.91	0.00
MC154	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC155	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC156	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC157	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC158	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC159	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.57	0.00
MC16	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC160	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.95	0.00
MC161	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.95	0.00
MC162	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC163	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC164	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.90	0.00
MC165	1.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.77	0.00
MC166	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC167	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC168	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.10	0.00
MC169	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.27	0.00
MC17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC170	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.95	0.00
MC171	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC172	1.00	0.00	0.00	0.00	0.78	0.22	0.00	0.00	0.98	0.00
MC173	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC174	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC175	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC176	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC177	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC178	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00

MC179	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC18	1.00	0.00	0.25	0.00	0.75	0.00	0.00	0.00	0.61	0.00
MC180	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC181	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.83	0.00
MC182_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.74	0.00
MC182_2	1.00	0.00	0.25	0.00	0.75	0.00	0.00	0.00	0.01	0.00
MC182_3	1.00	0.02	0.23	0.00	0.75	0.00	0.00	0.00	0.00	0.00
MC182_5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC183	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.13	0.00
MC184	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.78	0.00
MC185	1.00	0.00	0.00	0.00	0.24	0.76	0.00	0.00	0.11	0.00
MC186	1.00	0.00	0.00	0.00	0.64	0.36	0.00	0.00	0.89	0.00
MC187	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC188	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.85	0.00
MC189	1.00	0.00	0.00	0.00	0.89	0.10	0.00	0.00	0.76	0.00
MC19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC190	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC191	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.36	0.00
MC192	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC193	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_1	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_2	1.00	0.77	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC195	1.00	0.00	0.77	0.00	0.23	0.00	0.00	0.00	0.61	0.00
MC196	1.00	0.00	0.24	0.00	0.76	0.00	0.00	0.00	0.57	0.00
MC197	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC198	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.81	0.00
MC199	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.81	0.00
MC2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC200	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC201	1.00	0.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC202	1.00	0.14	0.84	0.00	0.03	0.00	0.00	0.00	0.61	0.00
MC203	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.96	0.00
MC204	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC205	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC206	1.00	0.00	0.00	0.00	0.40	0.60	0.00	0.00	0.26	0.00
MC207_1	1.00	0.00	0.00	0.00	0.47	0.53	0.00	0.00	0.79	0.00
MC207_3	1.00	0.00	0.00	0.00	0.34	0.66	0.00	0.00	0.03	0.00
MC207_4	1.00	0.00	0.00	0.00	0.40	0.60	0.00	0.00	0.14	0.00
MC208	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC209	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC21	1.00	0.24	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00
MC210	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC211	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC212	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC213	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC214_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC214_2	1.00	0.00	0.00	0.00	0.73	0.27	0.00	0.00	0.12	0.00
MC215	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.42	0.00
MC216	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC217	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.91	0.00
MC219	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.07	0.00
MC22	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC220	1.00	0.00	0.00	0.00	0.89	0.10	0.00	0.00	0.65	0.00
MC221	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC223	1.00	0.00	0.00	0.00	0.73	0.26	0.00	0.00	0.89	0.00
MC224	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC225	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC226	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC227	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.34	0.00
MC228	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.22	0.00
MC229	1.00	0.00	0.04	0.00	0.96	0.00	0.00	0.00	0.93	0.00
MC23	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.67	0.00
MC230	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.91	0.00
MC231	1.00	0.00	0.00	0.00	0.91	0.09	0.00	0.00	0.77	0.00
MC232	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC24	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC25	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC26	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC27	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.03	0.00
MC28	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.03	0.00
MC29	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
MC30	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.71	0.00
MC32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.85	0.00
MC34	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC35	1.00	0.00	0.16	0.00	0.84	0.00	0.00	0.00	0.72	0.00
MC36	1.00	0.00	0.16	0.00	0.84	0.00	0.00	0.00	0.00	0.00
MC37	1.00	0.00	0.00	0.00	0.31	0.69	0.00	0.00	0.31	0.00
MC38	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.27	0.00

MC39	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.42	0.00
MC4	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC40	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC41	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC42	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC43	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC44	1.00	0.00	0.25	0.00	0.75	0.00	0.00	0.00	0.62	0.00
MC45	1.00	0.00	0.25	0.00	0.75	0.00	0.00	0.00	0.60	0.00
MC46	1.00	0.00	0.24	0.00	0.76	0.00	0.00	0.00	0.58	0.00
MC47	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.85	0.00
MC48	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC49	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC50	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC51	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC52	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.89	0.00
MC53	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC54	1.00	0.00	0.25	0.00	0.75	0.00	0.00	0.00	0.00	0.00
MC55	1.00	0.00	0.25	0.00	0.75	0.00	0.00	0.00	0.63	0.00
MC56	1.00	0.02	0.00	0.00	0.97	0.01	0.00	0.00	0.60	0.00
MC57	1.00	0.00	0.25	0.00	0.75	0.00	0.00	0.00	0.63	0.00
MC58	1.00	0.00	0.23	0.00	0.77	0.00	0.00	0.00	0.00	0.00
MC59	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC6	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.21	0.00
MC62	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC64	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC65	1.00	0.01	0.02	0.00	0.98	0.00	0.00	0.00	0.99	0.00
MC66	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.98	0.00
MC67	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.81	0.00
MC68	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC69	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.16	0.00
MC7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC70	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC71	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC72	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC73	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC74	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.34	0.00
MC75	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC76	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC77	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.14	0.00
MC78	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00

MC79	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC8	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC80	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC82	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC83	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC84	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.75	0.00
MC85	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC86	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.12	0.00
MC87	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC89	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC9	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC90	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC91	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.08	0.00
MC92	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC93	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC97	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.12	0.00
MC98	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.72	0.00
MC99	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MJ-C5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MJ-C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.79	0.00
MJ-C7	1.00	0.02	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00
MJ-C8	1.00	0.08	0.00	0.00	0.79	0.13	0.00	0.00	0.05	0.00

****
Conduit Surcharge Summary
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	Hours Full			Hours Above Full	Hours Capacity
Conduit	Both Ends	Upstream	Dnstream	Normal Flow	Limited
C118	0.01	0.01	2.04	0.01	0.01
C119_2	0.01	0.01	2.46	0.01	0.01
C123	1.46	1.46	2.67	0.41	0.01
C124	0.01	0.01	0.91	0.82	0.01
C125	1.83	1.83	3.74	0.01	0.01
C126	4.80	4.80	5.30	0.01	0.01
C159	0.01	0.73	0.01	0.87	0.01
C160	0.23	0.23	0.65	0.01	0.01

C211	0.01	0.01	14.80	0.01	0.01
C228	0.77	0.77	3.48	0.01	0.01
C248	0.01	0.01	0.01	0.15	0.01
C252	0.06	0.06	0.11	0.01	0.01
C253	0.01	0.12	0.01	0.18	0.01
C258	0.01	0.12	0.01	0.31	0.01
C260	0.01	0.01	0.01	0.12	0.01
C281	0.01	0.01	0.01	0.12	0.01
C284	0.01	0.01	0.01	0.16	0.01
C343	0.01	0.01	0.01	0.15	0.01
C344	0.01	0.01	0.32	0.01	0.01
C345	0.01	0.01	0.01	0.44	0.01
C5	0.01	0.01	14.94	0.01	0.01
C653	0.01	0.09	0.01	0.28	0.01
C656	0.01	0.01	0.01	0.28	0.01
C658	0.01	0.01	0.01	0.15	0.01
C662	0.01	0.01	1.43	4.71	0.01
C712	0.47	0.47	20.05	0.01	0.01
C713	0.01	0.01	0.57	0.01	0.01
C714	0.01	0.01	0.36	0.01	0.01
C715	0.01	0.01	0.01	0.55	0.01
C718	0.29	0.29	0.47	0.01	0.01
C752	0.01	0.01	1.43	0.01	0.01
C757	0.01	0.01	0.01	0.11	0.01
C764	0.01	0.01	0.01	0.40	0.01
C765	0.43	0.43	0.57	0.01	0.01
C766	0.57	0.57	0.69	0.01	0.01
C767	0.01	0.01	0.01	0.17	0.01
MC148	0.01	0.01	14.76	0.01	0.01
MC202	0.01	0.01	0.11	0.01	0.01
MC220	0.01	0.01	0.14	0.01	0.01
MC231	0.01	0.01	14.76	0.01	0.01

Analysis begun on: Wed Oct 18 09:12:28 2023
Analysis ended on: Wed Oct 18 09:12:36 2023
Total elapsed time: 00:00:08

100-year Storm Proposed condition

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.1 (Build 5.1.015)
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WARNING 03: negative offset ignored for Link C20
WARNING 03: negative offset ignored for Link C23
WARNING 03: negative offset ignored for Link C349
WARNING 03: negative offset ignored for Link C63
WARNING 03: negative offset ignored for Link C660
WARNING 03: negative offset ignored for Link C662
WARNING 04: minimum elevation drop used for Conduit C672
WARNING 03: negative offset ignored for Link C700
WARNING 08: elevation drop exceeds length for Conduit C709
WARNING 03: negative offset ignored for Link C751
WARNING 03: negative offset ignored for Link C94
WARNING 03: negative offset ignored for Link OR3
WARNING 10: crest elevation raised to downstream invert for regulator Link OL62

*************
Element Count
*************
Number of rain gages ...... 6
Number of subcatchments ... 300
Number of nodes ........... 453
Number of links ........... 508
Number of pollutants ...... 0
Number of land uses ....... 0


****************
Raingage Summary
****************
                                                  Data       Recording
Name                 Data Source                  Type       Interval
----------------------------------------------------------------------
100-yr_Chicago_4h_current 100-yr_Chicago_4h_current      INTENSITY   10 min.
100-yrChicago_4h_climate_change 100-yrChicago_4h_climate_change INTENSITY   10 min.
100yr-Climate_Change_Chicago_24h 100yr-Climate_Change_Chicago_24h INTENSITY    5 min.
100-yr-Historical-Chicago-24h 100-yr-Historical-Chicago-24h  INTENSITY    5 min.
5yr-Climate_Change_Chicago_24h 5yr-Climate_Change_Chicago_24h INTENSITY    5 min.
5yr-Historical_Chicago_24h 5yr-Historical_Chicago_24h     INTENSITY    5 min.
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Subcatchment Summary
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Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
Rural_1	6.93	693.09	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF55
Rural_10	33.34	2222.61	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF46-
Rural_11	0.47	117.85	40.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ5
Rural_12	22.22	1481.37	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF45-
Rural_13	22.63	1508.50	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF44-
Rural_14	17.01	1133.79	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF42-
Rural_15	19.30	1286.64	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF47-
Rural_16	26.34	1756.25	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF43-
Rural_16-2_1	6.17	617.28	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF41-
Rural_16-2_2	7.41	740.63	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF40-
Rural_17	2.77	692.27	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF28-
Rural_17_1	2.85	711.70	40.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ7
Rural_17_2	15.18	1012.09	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF34-
Rural_17_4	13.48	898.39	7.00	0.5000	100yr-Climate_Change_Chicago_24h	OF36-
Rural_18	10.27	1027.27	0.00	0.5000	100yr-Climate_Change_Chicago_24h	OF35-
Rural_19	56.92	3794.74	0.00	0.5000	100yr-Climate_Change_Chicago_24h	OF37-
Rural_2	19.33	1932.61	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF56
Rural_20	24.28	2427.98	0.00	0.5000	100yr-Climate_Change_Chicago_24h	OF38-
Rural_21	97.14	6475.83	0.00	0.5000	100yr-Climate_Change_Chicago_24h	OF48-
Rural_22	42.10	2806.98	7.00	0.5000	100yr-Climate_Change_Chicago_24h	OF58
Rural_23	51.76	3450.73	16.00	0.5000	100yr-Climate_Change_Chicago_24h	OF60
Rural_24	7.67	1916.28	39.00	0.5000	100yr-Climate_Change_Chicago_24h	OF59
Rural_25	39.85	2656.49	12.00	0.5000	100yr-Climate_Change_Chicago_24h	OF58
Rural_26	32.24	2149.19	0.00	0.5000	100yr-Climate_Change_Chicago_24h	OF61
Rural_27	9.02	901.70	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF39-
Rural_29	17.03	1135.65	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF47-
Rural_3	7.28	727.85	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF57
Rural_4	27.11	1807.37	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF53
Rural_5	11.25	1124.69	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF51
Rural_6	13.81	1380.92	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF52
Rural_7	17.28	1152.22	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF49-
Rural_8	12.76	850.42	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF50
Rural_9	22.61	1507.37	40.00	0.5000	100yr-Climate_Change_Chicago_24h	OF54
S1	1.96	654.79	5.00	0.5000	100yr-Climate_Change_Chicago_24h	4396744795620

S10	1.60	534.10	35.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ156
S11	0.56	185.39	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4395014795520
S12	1.51	503.53	35.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ155
S13	1.08	359.39	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4393464795440
S14	0.35	117.21	35.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ153
S15	1.12	372.92	35.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ152
S16	1.34	448.20	35.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ154
S17_1	2.53	252.96	35.00	0.5000	100yr-Climate_Change_Chicago_24h	SCU2
S17_2	0.80	79.77	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4395024795240
S18	0.44	147.48	35.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ155
S19	0.51	168.40	25.00	0.5000	100yr-Climate_Change_Chicago_24h	4393464795440
S2	0.12	41.50	5.00	0.5000	100yr-Climate_Change_Chicago_24h	4395174795720
S20_1	1.63	542.93	35.00	0.5000	100yr-Climate_Change_Chicago_24h	SCU1
S20_2	0.94	312.40	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4393014795360
S21	0.33	111.01	25.00	0.5000	100yr-Climate_Change_Chicago_24h	J8
S22	0.41	137.61	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4392024795890
S23	0.07	24.13	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391884795900
S24	0.05	18.15	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391884795900
S25	0.06	18.42	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391504795920
S26	0.05	17.43	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391504795920
S27	0.33	109.02	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391304795930
S28	0.12	38.52	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391304795930
S29	0.25	83.87	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391014795950
S3	0.26	87.60	5.00	0.5000	100yr-Climate_Change_Chicago_24h	4394414795760
S30	0.06	19.13	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4390544795870
S31	0.06	18.83	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391194795830
S32	0.08	27.18	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391194795830
S33	0.36	119.35	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4391664795910
S4	0.44	148.28	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4396584795550
S5	1.59	530.12	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4396584795550
S6	0.90	301.00	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4395694795410
S7	0.91	302.89	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4394754795460
S8	0.86	285.21	25.00	0.5000	100yr-Climate_Change_Chicago_24h	4396134795480
S9	0.24	80.91	35.00	0.5000	100yr-Climate_Change_Chicago_24h	4395174795720
UC1	1.33	443.23	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ71
UC10	0.27	88.36	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ130
UC100	0.16	53.27	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF4-M
UC11	1.25	416.49	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ130
UC111	0.06	18.46	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ19
UC112	0.70	234.53	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ19
UC113	0.59	195.81	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ34

UC114	0.17	57.05	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ21
UC115	0.24	81.58	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ23
UC116	0.57	190.77	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ13
UC117	0.39	129.17	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ13
UC118	0.21	71.29	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ13
UC119	0.33	109.09	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ13
UC12	0.91	302.53	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MH2_S
UC120	1.43	475.37	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ135
UC121	0.29	96.14	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ26
UC122	0.30	100.59	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ93
UC123	0.15	51.62	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ87
UC124	0.24	80.00	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ74
UC125	0.30	30.34	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ25
UC126	0.08	26.84	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ114
UC127	0.40	134.31	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ120
UC128	0.03	8.82	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ114
UC129	0.04	14.37	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ103
UC13	1.12	372.27	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MH3_S
UC130	0.16	54.47	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ44
UC131	0.07	22.34	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ97
UC132	0.12	38.54	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ91
UC133	0.26	85.91	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ35
UC134	0.07	23.97	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ77
UC135	0.35	118.31	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ27
UC136	0.02	7.51	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ61
UC137	0.16	53.32	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ30
UC138	0.20	65.32	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ14
UC139	0.05	15.79	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ10
UC14	0.46	152.40	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ143
UC140	0.13	43.41	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ1
UC141	0.27	91.09	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ1
UC142	0.13	43.51	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ2
UC143	0.59	195.95	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ2
UC144	0.34	114.43	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ31
UC145	0.38	128.10	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ31
UC146	0.45	151.56	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ30
UC147	0.16	51.99	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ20
UC148	0.17	55.60	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ32
UC149	0.30	98.86	25.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ32
UC15	0.22	72.23	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MH8_S
UC150	0.63	210.22	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ27

UC151	0.23	78.08	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ57
UC152	0.15	48.86	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ3
UC153	0.48	159.93	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ3
UC154	0.65	217.20	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ3
UC155	0.19	62.55	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ45
UC156	0.54	181.16	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ25
UC157	0.46	152.01	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF31-M
UC159	0.12	38.43	55.00	0.5000	100yr-Climate_Change_Chicago_24h	CBMH5_ON
UC16	0.50	166.28	55.00	0.5000	100yr-Climate_Change_Chicago_24h	CB15
UC162	0.37	122.53	55.00	0.5000	100yr-Climate_Change_Chicago_24h	J127
UC163	0.08	25.95	55.00	0.5000	100yr-Climate_Change_Chicago_24h	CB23
UC164	0.35	116.48	55.00	0.5000	100yr-Climate_Change_Chicago_24h	CB17
UC167	0.61	204.17	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF6-
UC168	0.16	51.90	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ63
UC17	0.82	272.45	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ125
UC173	2.03	677.63	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ152
UC174	1.54	514.47	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ148
UC175	0.11	36.39	55.00	0.5000	100yr-Climate_Change_Chicago_24h	J38
UC176	0.22	74.81	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ134
UC177	0.82	272.09	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ148
UC178	0.79	263.61	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF9-M
UC179	0.43	141.99	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF30-M
UC18	0.68	227.09	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ130
UC180	3.20	1067.16	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ100
UC181	0.76	254.77	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ100
UC182	1.10	367.89	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ70
UC183	2.34	778.67	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ122
UC184	0.11	35.65	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ99
UC185	0.11	35.03	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ107
UC186	0.05	15.93	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ104
UC187	0.14	45.38	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ104
UC188	1.25	417.00	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ129
UC189	1.78	592.86	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ116
UC19	0.74	247.66	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ108
UC190	0.38	127.82	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ129
UC191	0.09	29.27	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ132
UC192	2.38	792.09	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ137
UC193	0.63	209.65	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ147
UC194_1	0.59	197.43	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MH21_S
UC194_3	0.66	220.10	55.00	0.5000	100yr-Climate_Change_Chicago_24h	J9
UC194_4	0.46	153.93	45.00	0.5000	100yr-Climate_Change_Chicago_24h	J10

UC195	1.13	377.67	45.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ145
UC196	0.60	200.27	55.00	0.5000	100yr-Climate_Change_Chicago_24h	Gill_RD_Pond
UC197	0.77	256.83	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ124
UC198_1	0.42	139.93	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ145
UC198_2	0.35	117.43	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ144
UC199	0.23	75.93	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF26-M
UC2	0.69	228.67	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ84
UC20	0.91	303.91	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ101
UC200	0.40	132.98	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ119
UC201	1.05	349.75	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MH34_S
UC202	0.87	290.43	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ139
UC203	0.66	221.28	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ128
UC204	0.79	263.60	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ128
UC205	0.39	130.87	5.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ112
UC206	2.25	751.40	5.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ95
UC207	0.96	320.57	5.00	0.5000	100yr-Climate_Change_Chicago_24h	J1
UC208	0.57	191.63	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ110
UC209	0.38	125.76	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ112
UC21	0.42	139.13	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ103
UC210	1.55	516.08	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ92
UC211	2.79	930.15	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ67
UC212	2.81	937.22	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ22
UC213	4.46	1486.35	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ22
UC214	0.61	203.69	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ7
UC215	1.27	423.54	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ15
UC216	1.99	663.06	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ36
UC217	1.96	652.18	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ36
UC218	1.20	400.42	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ24
UC219	0.14	46.27	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ122
UC22	0.39	130.02	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ89
UC220	0.03	9.20	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ131
UC221	0.13	42.97	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ136
UC222	0.31	104.56	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ131
UC223	0.26	87.52	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ135
UC224	0.37	123.74	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ151
UC225	0.73	243.33	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MH8_S
UC229	0.02	7.54	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ64
UC23	0.33	111.21	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ86
UC24	0.34	114.53	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ80
UC25	0.31	104.28	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ65
UC26	0.18	58.99	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ76

UC27	0.15	50.82	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ86
UC28	0.22	72.77	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ69
UC29	0.26	85.34	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ69
UC3	0.16	54.62	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ102
UC30	0.05	17.37	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ66
UC300	1.52	505.83	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF28-
UC301	4.36	1453.53	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF23-
UC302	0.47	158.17	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF26-M
UC303	0.55	184.73	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF27-1
UC304	2.14	712.20	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF21-
UC305	2.14	714.30	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF10-
UC306	0.69	229.93	5.00	0.5000	100yr-Climate_Change_Chicago_24h	J2
UC307	0.50	165.17	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF27-1
UC308	2.74	245.84	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ12
UC309	0.46	154.37	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF17-
UC31	0.33	111.10	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ55
UC310	0.71	238.23	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF19-
UC311	4.49	1495.23	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF15-
UC312	1.66	554.30	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF15-
UC313_2	2.65	884.63	5.00	0.5000	100yr-Climate_Change_Chicago_24h	OF13-1
UC313_3	1.89	628.77	5.00	0.5000	100yr-Climate_Change_Chicago_24h	OF14-
UC313_4	0.83	276.00	35.00	0.5000	100yr-Climate_Change_Chicago_24h	UC313_2
UC314	0.23	77.97	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF18-M
UC315	0.94	313.53	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF5-M
UC316	0.64	214.80	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF5-M
UC317	0.59	197.20	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF4-M
UC318	0.63	210.60	20.00	0.5000	100yr-Climate_Change_Chicago_24h	OF3-
UC319	2.35	781.77	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF27-M
UC32	0.12	38.49	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ48
UC33	0.80	266.66	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ48
UC34	0.62	205.09	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ55
UC35	0.06	18.45	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ69
UC36	0.05	16.27	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ60
UC37	0.10	32.31	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ55
UC38	0.41	137.29	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ37
UC39	0.14	47.24	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ51
UC4	0.40	133.14	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ102
UC40	0.09	30.17	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ61
UC41	0.05	15.78	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ73
UC42	0.09	30.13	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ73
UC43	0.07	24.64	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ83

UC44	0.06	21.00	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ83
UC45	0.17	56.40	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ89
UC46	0.13	42.55	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ108
UC47	0.15	49.57	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ118
UC48	0.19	63.36	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ118
UC49	0.42	138.36	55.00	0.5000	100yr-Climate_Change_Chicago_24h	CB20
UC5	0.51	169.28	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ103
UC50	0.29	95.42	55.00	0.5000	100yr-Climate_Change_Chicago_24h	CB19
UC51	0.63	211.64	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ121
UC52	0.57	189.36	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ131
UC53	0.79	264.40	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ105
UC54	0.77	256.33	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ93
UC55	0.70	233.10	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ87
UC56	0.41	135.07	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ82
UC57	0.35	117.21	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ72
UC58	0.29	97.61	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ64
UC59	0.23	76.57	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ61
UC6	0.22	71.89	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ102
UC60	0.16	52.37	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ61
UC61	0.36	120.37	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ35
UC62	0.69	228.71	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ26
UC63	0.08	26.32	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ18
UC64	0.05	15.69	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ53
UC65	0.14	47.86	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ72
UC66	0.07	23.20	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ79
UC67	0.00	1.18	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ79
UC68	0.24	78.40	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ74
UC69	0.04	11.73	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ78
UC7	0.30	99.82	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ113
UC70	0.05	18.24	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ75
UC71	0.80	209.88	5.00	0.5000	100yr-Climate_Change_Chicago_24h	Rice_Pond
UC72	0.06	18.71	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ81
UC73	0.36	121.41	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ90
UC74	15.94	4116.06	5.00	0.5000	100yr-Climate_Change_Chicago_24h	OF24-
UC75	0.21	69.77	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ93
UC76	0.32	105.90	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ81
UC77	0.27	89.05	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ59
UC78	0.39	130.61	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ42
UC79	0.06	18.52	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ117
UC8	0.45	148.58	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ120
UC80	0.03	9.53	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ64

UC81	0.25	81.93	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ115
UC82	0.45	151.11	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ90
UC83	0.19	61.70	55.00	0.5000	100yr-Climate_Change_Chicago_24h	OF5-M
UC84	1.13	376.24	20.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ9
UC85	0.42	138.40	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ74
UC86	0.33	109.61	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ59
UC87	0.15	48.47	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ56
UC88	0.16	53.96	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ52
UC89	0.36	119.67	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ52
UC9	0.47	158.00	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ127
UC90	0.14	47.36	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ58
UC91	0.04	14.63	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ47
UC92	0.08	27.04	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ47
UC93	0.21	69.53	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ38
UC94	0.17	55.62	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ38
UC95	0.10	31.80	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ46
UC96	0.23	75.23	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ29
UC97	0.14	46.20	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ29
UC98	0.22	73.89	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ47
UC99	0.33	111.47	55.00	0.5000	100yr-Climate_Change_Chicago_24h	MJ17

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LID Control Summary
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Subcatchment	LID Control	No. of Units	Unit Area	Unit Width	% Area Covered	% Imperv Treated	% Perv Treated
UC120	Bioretention_Facility	1	200.00	5.00	1.40	90.00	90.00
UC122	Bioretention_Facility	1	100.00	5.00	3.31	90.00	90.00
UC127	Bioretention_Facility	1	300.00	5.00	7.45	90.00	90.00
UC129	Bioretention_Facility	1	100.00	5.00	23.20	90.00	90.00
UC131	Bioretention_Facility	1	100.00	5.00	14.92	90.00	90.00
UC132	Bioretention_Facility	1	150.00	5.00	12.97	90.00	90.00
UC136	Bioretention_Facility	1	50.00	5.00	22.19	90.00	90.00
UC3	Bioretention_Facility	1	60.00	5.00	3.66	90.00	90.00
UC4	Bioretention_Facility	1	160.00	5.00	4.01	90.00	90.00
UC40	Bioretention_Facility	1	80.00	5.00	8.84	90.00	90.00
UC53	Bioretention_Facility	1	200.00	5.00	2.52	90.00	90.00
UC59	Bioretention_Facility	1	200.00	5.00	8.71	90.00	90.00
UC6	Bioretention_Facility	1	100.00	5.00	4.64	90.00	90.00

UC60	Bioretention_Facility	1	120.00	5.00	7.64	90.00	90.00
UC7	Bioretention_Facility	1	120.00	5.00	4.01	90.00	90.00
UC77	Bioretention_Facility	1	100.00	5.00	3.74	90.00	90.00
UC8	Bioretention_Facility	1	300.00	5.00	6.73	90.00	90.00
UC82	Bioretention_Facility	1	140.00	5.00	3.09	90.00	90.00
UC89	Bioretention_Facility	1	200.00	5.00	5.57	90.00	90.00
UC90	Bioretention_Facility	1	120.00	5.00	8.45	90.00	90.00
UC96	Bioretention_Facility	1	160.00	5.00	7.09	90.00	90.00
UC97	Bioretention_Facility	1	60.00	5.00	4.33	90.00	90.00

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
4390544795870	JUNCTION	183.56	2.00	0.0	
4390824795850	JUNCTION	183.34	2.00	0.0	
4391014795950	JUNCTION	183.74	2.00	0.0	
4391194795830	JUNCTION	183.55	2.00	0.0	
4391304795930	JUNCTION	184.03	2.00	0.0	
4391504795920	JUNCTION	184.15	2.00	0.0	
4391544795810	JUNCTION	182.95	2.00	0.0	
4391664795910	JUNCTION	184.06	2.00	0.0	
4391884795900	JUNCTION	184.13	2.00	0.0	
4392024795890	JUNCTION	184.09	2.00	0.0	
4393014795360	JUNCTION	185.94	2.00	0.0	
4393464795440	JUNCTION	186.11	2.00	0.0	
4394414795760	JUNCTION	185.65	2.00	0.0	
4394754795460	JUNCTION	186.23	2.00	0.0	
4394784795740	JUNCTION	184.70	1.10	0.0	
4395014795520	JUNCTION	185.67	2.00	0.0	
4395024795240	JUNCTION	186.21	2.00	0.0	
4395174795720	JUNCTION	186.33	2.00	0.0	
4395694795410	JUNCTION	187.03	2.00	0.0	
4396134795480	JUNCTION	186.27	2.00	0.0	
4396584795550	JUNCTION	187.03	2.00	0.0	
4396744795620	JUNCTION	187.11	2.00	0.0	
CB15	JUNCTION	181.70	1.40	0.0	
CB16	JUNCTION	181.95	1.58	0.0	

CB17	JUNCTION	180.27	2.86	0.0
CB18	JUNCTION	181.40	1.68	0.0
CB19	JUNCTION	181.60	1.50	0.0
CB20	JUNCTION	181.34	1.76	0.0
CB21	JUNCTION	180.51	2.49	0.0
CB22	JUNCTION	181.20	2.30	0.0
CB23	JUNCTION	181.45	1.85	0.0
CB26	JUNCTION	179.34	3.28	0.0
CB27	JUNCTION	182.57	1.72	0.0
CB29	JUNCTION	185.26	0.85	0.0
CB30	JUNCTION	185.15	0.91	0.0
CB30_1	JUNCTION	183.93	1.57	0.0
CB31	JUNCTION	183.49	1.13	0.0
CB32	JUNCTION	183.42	1.22	0.0
CB33	JUNCTION	183.34	1.39	0.0
CB34	JUNCTION	184.40	0.74	0.0
CB35	JUNCTION	184.20	0.95	0.0
CB41	JUNCTION	181.77	0.85	0.0
CB42	JUNCTION	181.15	1.50	0.0
CB-58	JUNCTION	180.43	2.10	0.0
CBMH_1	JUNCTION	181.53	1.97	0.0
CBMH_40	JUNCTION	182.75	2.25	0.0
CBMH_41	JUNCTION	182.52	1.98	0.0
CBMH_42	JUNCTION	182.82	1.68	0.0
CBMH_44	JUNCTION	182.43	1.87	0.0
CBMH_46	JUNCTION	182.00	2.03	0.0
CBMH_62	JUNCTION	182.63	1.56	0.0
CBMH_9	JUNCTION	183.50	3.00	0.0
CBMH1	JUNCTION	182.55	1.45	0.0
CBMH1_ON	JUNCTION	184.86	1.26	0.0
CBMH10_Main	JUNCTION	179.41	2.02	0.0
CBMH2	JUNCTION	180.73	3.49	0.0
CBMH2_ON	JUNCTION	184.54	2.00	0.0
CBMH3_ON	JUNCTION	184.25	2.33	0.0
CBMH4_ON	JUNCTION	183.99	2.41	0.0
CBMH5	JUNCTION	179.80	2.75	0.0
CBMH5_ON	JUNCTION	184.05	2.30	0.0
CBMH6_ON	JUNCTION	183.89	2.26	0.0
CBMH7	JUNCTION	182.38	1.87	0.0
CBMH7_ON	JUNCTION	183.71	1.58	0.0
CBMH8_ON	JUNCTION	183.26	1.51	0.0

CBMH9_ON	JUNCTION	182.74	1.61	0.0
DCB72	JUNCTION	180.43	1.45	0.0
DICBMH42	JUNCTION	176.65	2.45	0.0
J1	JUNCTION	183.15	2.00	0.0
J10	JUNCTION	182.53	2.00	0.0
J101	JUNCTION	180.77	1.30	0.0
J102	JUNCTION	180.00	2.04	0.0
J105	JUNCTION	183.98	1.52	0.0
J106	JUNCTION	183.62	1.13	0.0
J110	JUNCTION	180.82	1.39	0.0
J113	JUNCTION	180.92	1.25	0.0
J115	JUNCTION	183.07	1.93	0.0
J116	JUNCTION	176.45	1.41	0.0
J12	JUNCTION	183.32	3.08	0.0
J125	JUNCTION	179.15	3.73	0.0
J127	JUNCTION	180.71	2.36	0.0
J128	JUNCTION	180.92	2.45	0.0
J15	JUNCTION	180.71	3.09	0.0
J2	JUNCTION	182.87	2.00	0.0
J20	JUNCTION	179.51	3.24	0.0
J24	JUNCTION	177.76	4.94	0.0
J3	JUNCTION	181.58	2.00	0.0
J30	JUNCTION	186.43	2.77	0.0
J31	JUNCTION	185.91	3.09	0.0
J34	JUNCTION	181.75	1.62	0.0
J35	JUNCTION	181.98	1.23	0.0
J36	JUNCTION	179.96	3.79	0.0
J38	JUNCTION	180.00	3.26	0.0
J4	JUNCTION	185.20	2.55	0.0
J42	JUNCTION	179.01	3.19	0.0
J43	JUNCTION	178.80	3.55	0.0
J47	JUNCTION	179.99	2.53	0.0
J48	JUNCTION	180.60	3.90	0.0
J49	JUNCTION	180.92	2.12	0.0
J5	JUNCTION	184.85	3.65	0.0
J50	JUNCTION	178.47	4.13	0.0
J52	JUNCTION	178.68	3.32	0.0
J55	JUNCTION	178.50	3.72	0.0
J6	JUNCTION	181.23	2.00	0.0
J62	JUNCTION	178.38	4.00	0.0
J66	JUNCTION	176.80	1.21	0.0

J67	JUNCTION	176.71	1.02	0.0
J7	JUNCTION	182.39	2.00	0.0
J70	JUNCTION	175.92	1.45	0.0
J78	JUNCTION	0.00	0.30	0.0
J8	JUNCTION	184.40	1.77	0.0
J83	JUNCTION	0.00	0.30	0.0
J9	JUNCTION	182.72	2.00	0.0
J91	JUNCTION	178.37	4.55	0.0
J93	JUNCTION	182.16	0.74	0.0
J95	JUNCTION	182.38	0.64	0.0
J98	JUNCTION	181.18	0.86	0.0
MH_1	JUNCTION	181.24	2.76	0.0
MH_10	JUNCTION	183.26	3.24	0.0
MH_11	JUNCTION	183.13	3.33	0.0
MH_12	JUNCTION	185.24	2.02	0.0
MH_13	JUNCTION	184.10	2.77	0.0
MH_14	JUNCTION	183.75	2.84	0.0
MH_15	JUNCTION	182.74	3.11	0.0
MH_16	JUNCTION	182.59	3.03	0.0
MH_17	JUNCTION	182.15	2.72	0.0
MH_18	JUNCTION	184.53	2.65	0.0
MH_19	JUNCTION	185.17	2.24	0.0
MH_2	JUNCTION	180.60	1.90	0.0
MH_20	JUNCTION	184.93	2.01	0.0
MH_21	JUNCTION	184.53	2.04	0.0
MH_22	JUNCTION	183.99	2.43	0.0
MH_23	JUNCTION	183.28	3.06	0.0
MH_24	JUNCTION	184.50	1.90	0.0
MH_25	JUNCTION	184.00	2.94	0.0
MH_26	JUNCTION	183.28	2.54	0.0
MH_27	JUNCTION	183.07	2.54	0.0
MH_29	JUNCTION	183.90	1.74	0.0
MH_30	JUNCTION	183.08	2.19	0.0
MH_34	JUNCTION	183.13	2.94	0.0
MH_35	JUNCTION	182.73	2.96	0.0
MH_36	JUNCTION	182.63	2.91	0.0
MH_37	JUNCTION	182.25	2.93	0.0
MH_38	JUNCTION	182.02	2.87	0.0
MH_39	JUNCTION	181.68	2.80	0.0
MH_43	JUNCTION	182.56	1.74	0.0
MH_45	JUNCTION	182.14	1.89	0.0

MH_47	JUNCTION	181.56	2.77	0.0
MH_56	JUNCTION	183.17	0.83	0.0
MH_57	JUNCTION	182.84	1.26	0.0
MH_58	JUNCTION	182.68	1.46	0.0
MH_59	JUNCTION	183.44	1.06	0.0
MH_61	JUNCTION	183.17	1.33	0.0
MH_63	JUNCTION	182.46	1.79	0.0
MH_64	JUNCTION	182.20	2.23	0.0
MH_65	JUNCTION	181.87	2.45	0.0
MH_66	JUNCTION	181.81	2.42	0.0
MH_67	JUNCTION	181.33	2.72	0.0
MH_68	JUNCTION	181.12	2.23	0.0
MH_69	JUNCTION	180.26	3.94	0.0
MH_70	JUNCTION	179.67	2.41	0.0
MH1	JUNCTION	181.11	2.89	0.0
MH1_Main	JUNCTION	183.85	1.77	0.0
MH10	JUNCTION	179.50	3.65	0.0
MH10__S	JUNCTION	183.15	2.00	0.0
MH10_Main	JUNCTION	176.78	2.27	0.0
MH11	JUNCTION	179.30	3.47	0.0
MH11__S	JUNCTION	182.77	2.00	0.0
MH11_Main	JUNCTION	176.34	2.32	0.0
MH12	JUNCTION	181.20	1.87	0.0
MH13	JUNCTION	178.80	4.45	0.0
MH13_Main	JUNCTION	181.26	1.68	0.0
MH13_Main_	JUNCTION	180.75	1.93	0.0
MH14	JUNCTION	178.35	5.60	0.0
MH14_Main	JUNCTION	180.55	2.15	0.0
MH15	JUNCTION	178.20	5.71	0.0
MH15_Main	JUNCTION	180.49	2.55	0.0
MH16	JUNCTION	178.00	5.20	0.0
MH2	JUNCTION	181.00	2.95	0.0
MH2_Main	JUNCTION	183.35	1.52	0.0
MH2_S	JUNCTION	183.95	2.00	0.0
MH21	JUNCTION	181.12	1.98	0.0
MH21_S	JUNCTION	182.80	2.00	0.0
MH22	JUNCTION	180.69	2.21	0.0
MH23	JUNCTION	180.76	2.04	0.0
MH24	JUNCTION	180.59	2.18	0.0
MH25	JUNCTION	180.10	2.85	0.0
MH25-1	JUNCTION	180.26	2.69	0.0

MH26	JUNCTION	179.76	3.09	0.0
MH3	JUNCTION	180.92	3.19	0.0
MH3_Main	JUNCTION	182.82	2.67	0.0
MH3_S	JUNCTION	184.11	2.00	0.0
MH30	JUNCTION	179.43	2.82	0.0
MH31	JUNCTION	179.33	3.10	0.0
MH32	JUNCTION	179.21	2.82	0.0
MH33	JUNCTION	179.13	2.90	0.0
MH34	JUNCTION	179.06	2.06	0.0
MH34_S	JUNCTION	181.48	2.00	0.0
MH35	JUNCTION	178.95	2.88	0.0
MH36	JUNCTION	178.83	3.13	0.0
MH36_S	JUNCTION	181.97	2.00	0.0
MH37	JUNCTION	179.80	2.54	0.0
MH37_S	JUNCTION	182.34	2.00	0.0
MH38	JUNCTION	179.55	2.72	0.0
MH39	JUNCTION	179.41	2.76	0.0
MH4	JUNCTION	180.70	3.46	0.0
MH4_Main	JUNCTION	181.66	2.60	0.0
MH40	JUNCTION	178.83	3.25	0.0
MH41	JUNCTION	178.68	3.18	0.0
MH41_S	JUNCTION	181.86	2.00	0.0
MH42	JUNCTION	177.44	2.00	0.0
MH43	JUNCTION	177.28	4.82	0.0
MH5	JUNCTION	182.45	2.55	0.0
MH5_Main	JUNCTION	180.75	2.08	0.0
MH6	JUNCTION	182.32	2.68	0.0
MH6_Main	JUNCTION	180.24	3.03	0.0
MH7	JUNCTION	182.10	1.90	0.0
MH7_Main	JUNCTION	180.25	1.77	0.0
MH8	JUNCTION	180.51	3.45	0.0
MH8_Main	JUNCTION	177.56	1.91	0.0
MH8_S	JUNCTION	183.96	2.00	0.0
MH9	JUNCTION	180.27	3.46	0.0
MH9__S	JUNCTION	183.22	2.00	0.0
MH9_Main	JUNCTION	177.61	1.93	0.0
MJ_	JUNCTION	182.63	2.00	0.0
MJ1	JUNCTION	177.47	2.00	0.0
MJ10	JUNCTION	183.50	2.00	0.0
MJ100	JUNCTION	182.26	2.00	0.0
MJ101	JUNCTION	183.69	2.00	0.0

MJ102	JUNCTION	182.86	2.00	0.0
MJ103	JUNCTION	183.01	2.00	0.0
MJ104	JUNCTION	184.20	2.00	0.0
MJ105	JUNCTION	184.47	2.00	0.0
MJ106	JUNCTION	183.57	2.00	0.0
MJ107	JUNCTION	184.16	2.00	0.0
MJ108	JUNCTION	185.68	2.00	0.0
MJ109	JUNCTION	184.90	2.00	0.0
MJ11	JUNCTION	178.72	2.00	0.0
MJ110	JUNCTION	182.03	2.00	0.0
MJ111	JUNCTION	182.56	2.00	0.0
MJ112	JUNCTION	180.63	2.00	0.0
MJ113	JUNCTION	184.24	2.00	0.0
MJ114	JUNCTION	184.53	2.00	0.0
MJ115	JUNCTION	185.42	2.00	0.0
MJ116	JUNCTION	181.97	2.00	0.0
MJ117	JUNCTION	185.54	2.00	0.0
MJ118	JUNCTION	184.71	2.00	0.0
MJ119	JUNCTION	180.21	2.00	0.0
MJ12	JUNCTION	179.00	2.00	0.0
MJ120	JUNCTION	183.93	2.00	0.0
MJ121	JUNCTION	186.66	2.00	0.0
MJ122	JUNCTION	184.25	2.00	0.0
MJ123	JUNCTION	187.14	2.00	0.0
MJ124	JUNCTION	180.38	2.00	0.0
MJ125	JUNCTION	186.11	2.00	0.0
MJ126	JUNCTION	185.15	2.03	0.0
MJ127	JUNCTION	185.86	2.00	0.0
MJ128	JUNCTION	182.09	2.00	0.0
MJ129	JUNCTION	181.77	2.00	0.0
MJ13	JUNCTION	178.60	2.00	0.0
MJ130	JUNCTION	186.07	2.00	0.0
MJ131	JUNCTION	184.25	2.00	0.0
MJ132	JUNCTION	181.74	2.00	0.0
MJ133	JUNCTION	186.56	2.00	0.0
MJ134	JUNCTION	181.39	2.00	0.0
MJ135	JUNCTION	183.25	2.00	0.0
MJ136	JUNCTION	183.36	2.00	0.0
MJ137	JUNCTION	182.43	2.00	0.0
MJ138	JUNCTION	187.83	2.00	0.0
MJ139	JUNCTION	181.93	2.00	0.0

MJ14	JUNCTION	181.49	2.00	0.0
MJ140	JUNCTION	182.17	2.00	0.0
MJ142	JUNCTION	182.62	2.00	0.0
MJ143	JUNCTION	184.16	2.00	0.0
MJ144	JUNCTION	182.85	2.00	0.0
MJ145	JUNCTION	182.53	2.00	0.0
MJ146	JUNCTION	182.36	2.00	0.0
MJ147	JUNCTION	183.01	2.00	0.0
MJ148	JUNCTION	183.01	2.00	0.0
MJ149	JUNCTION	184.00	2.00	0.0
MJ15	JUNCTION	188.53	2.00	0.0
MJ150	JUNCTION	184.44	2.00	0.0
MJ151	JUNCTION	183.38	2.00	0.0
MJ152	JUNCTION	183.70	2.00	0.0
MJ153	JUNCTION	184.32	2.00	0.0
MJ154	JUNCTION	184.48	2.00	0.0
MJ155	JUNCTION	185.18	2.00	0.0
MJ156	JUNCTION	185.85	2.00	0.0
MJ158	JUNCTION	183.48	2.00	0.0
MJ16	JUNCTION	178.64	2.00	0.0
MJ17	JUNCTION	181.83	2.00	0.0
MJ18	JUNCTION	183.36	2.00	0.0
MJ19	JUNCTION	180.99	2.00	0.0
MJ2	JUNCTION	177.75	2.00	0.0
MJ20	JUNCTION	183.28	2.00	0.0
MJ21	JUNCTION	178.93	2.00	0.0
MJ22	JUNCTION	186.16	2.00	0.0
MJ23	JUNCTION	179.26	2.00	0.0
MJ24	JUNCTION	181.81	2.00	0.0
MJ25	JUNCTION	183.46	2.00	0.0
MJ26	JUNCTION	182.88	2.00	0.0
MJ27	JUNCTION	179.82	2.00	0.0
MJ28	JUNCTION	183.09	2.00	0.0
MJ29	JUNCTION	181.04	2.00	0.0
MJ3	JUNCTION	177.39	2.00	0.0
MJ30	JUNCTION	181.35	2.00	0.0
MJ31	JUNCTION	181.07	2.00	0.0
MJ32	JUNCTION	181.94	2.00	0.0
MJ33	JUNCTION	181.69	2.00	0.0
MJ34	JUNCTION	179.69	2.00	0.0
MJ35	JUNCTION	180.16	2.00	0.0

MJ36	JUNCTION	182.67	2.00	0.0
MJ37	JUNCTION	178.64	2.00	0.0
MJ38	JUNCTION	181.67	2.00	0.0
MJ39	JUNCTION	183.95	2.00	0.0
MJ4	JUNCTION	179.70	2.00	0.0
MJ40	JUNCTION	182.92	2.00	0.0
MJ41	JUNCTION	183.49	2.00	0.0
MJ42	JUNCTION	180.66	2.00	0.0
MJ43	JUNCTION	186.65	2.00	0.0
MJ44	JUNCTION	183.40	2.00	0.0
MJ45	JUNCTION	184.79	2.00	0.0
MJ46	JUNCTION	181.56	2.00	0.0
MJ47	JUNCTION	182.83	2.00	0.0
MJ48	JUNCTION	176.45	2.00	0.0
MJ49	JUNCTION	182.90	2.00	0.0
MJ5	JUNCTION	183.63	2.00	0.0
MJ50	JUNCTION	182.60	2.00	0.0
MJ51	JUNCTION	181.03	2.00	0.0
MJ52	JUNCTION	182.59	2.00	0.0
MJ53	JUNCTION	182.25	2.00	0.0
MJ54	JUNCTION	182.45	2.00	0.0
MJ55	JUNCTION	178.53	2.00	0.0
MJ56	JUNCTION	182.92	2.00	0.0
MJ57	JUNCTION	178.83	2.00	0.0
MJ58	JUNCTION	182.42	2.00	0.0
MJ59	JUNCTION	181.95	2.00	0.0
MJ60	JUNCTION	180.01	2.00	0.0
MJ61	JUNCTION	180.74	2.00	0.0
MJ62	JUNCTION	183.87	2.00	0.0
MJ63	JUNCTION	182.23	2.00	0.0
MJ64	JUNCTION	182.17	2.00	0.0
MJ65	JUNCTION	182.48	2.00	0.0
MJ66	JUNCTION	180.29	2.00	0.0
MJ67	JUNCTION	185.99	2.00	0.0
MJ68	JUNCTION	184.22	2.00	0.0
MJ69	JUNCTION	182.30	2.00	0.0
MJ7	JUNCTION	186.59	2.00	0.0
MJ70	JUNCTION	183.26	2.00	0.0
MJ71	JUNCTION	179.00	2.00	0.0
MJ72	JUNCTION	182.44	2.00	0.0
MJ73	JUNCTION	182.35	2.00	0.0

MJ74	JUNCTION	182.65	2.00	0.0
MJ75	JUNCTION	182.97	2.00	0.0
MJ76	JUNCTION	183.74	2.00	0.0
MJ77	JUNCTION	182.36	2.00	0.0
MJ78	JUNCTION	183.13	2.00	0.0
MJ79	JUNCTION	182.65	2.02	0.0
MJ8	JUNCTION	189.00	2.00	0.0
MJ80	JUNCTION	182.72	2.00	0.0
MJ81	JUNCTION	183.15	2.00	0.0
MJ82	JUNCTION	182.69	2.00	0.0
MJ83	JUNCTION	182.48	2.00	0.0
MJ84	JUNCTION	185.65	2.00	0.0
MJ85	JUNCTION	183.89	2.00	0.0
MJ86	JUNCTION	184.35	2.00	0.0
MJ87	JUNCTION	183.32	2.00	0.0
MJ88	JUNCTION	183.05	2.00	0.0
MJ89	JUNCTION	182.76	2.00	0.0
MJ9	JUNCTION	178.63	2.00	0.0
MJ90	JUNCTION	181.67	2.00	0.0
MJ91	JUNCTION	184.14	2.00	0.0
MJ92	JUNCTION	185.97	2.00	0.0
MJ93	JUNCTION	184.97	2.00	0.0
MJ94	JUNCTION	184.52	2.00	0.0
MJ95	JUNCTION	181.16	2.00	0.0
MJ96	JUNCTION	182.91	2.00	0.0
MJ97	JUNCTION	182.44	2.00	0.0
MJ98	JUNCTION	183.37	2.00	0.0
MJ99	JUNCTION	185.38	2.00	0.0
OGS-	JUNCTION	180.49	1.51	0.0
RICE_POND_OUTLET	JUNCTION	180.82	1.22	0.0
OF1	OUTFALL	184.20	0.80	0.0
OF10-	OUTFALL	0.00	0.00	0.0
OF11-M	OUTFALL	183.10	1.10	0.0
OF12-	OUTFALL	179.15	0.68	0.0
OF13-1	OUTFALL	180.31	0.45	0.0
OF13-2	OUTFALL	180.31	1.10	0.0
OF14-	OUTFALL	179.55	0.53	0.0
OF15-	OUTFALL	177.00	0.00	0.0
OF16-	OUTFALL	177.00	0.45	0.0
OF17-	OUTFALL	177.80	0.82	0.0
OF18-M	OUTFALL	179.15	0.00	0.0

OF19-	OUTFALL	178.15	0.82	0.0
OF1-M	OUTFALL	175.00	1.00	0.0
OF20-	OUTFALL	178.00	0.45	0.0
OF21-	OUTFALL	179.15	0.00	0.0
OF22_M	OUTFALL	181.25	1.10	0.0
OF23-	OUTFALL	0.00	0.00	0.0
OF24-	OUTFALL	177.26	0.82	0.0
OF25-	OUTFALL	177.59	0.45	0.0
OF26-M	OUTFALL	178.53	1.00	0.0
OF27-1	OUTFALL	177.18	0.82	0.0
OF27-M	OUTFALL	178.86	0.50	0.0
OF28-	OUTFALL	0.00	0.00	0.0
OF29-	OUTFALL	178.63	0.30	0.0
OF2-M	OUTFALL	177.10	1.10	0.0
OF2-M-	OUTFALL	177.10	1.10	0.0
OF3-	OUTFALL	176.00	0.45	0.0
OF30-M	OUTFALL	179.83	0.48	0.0
OF31-M	OUTFALL	181.38	1.10	0.0
OF32-M	OUTFALL	184.92	1.10	0.0
OF33-	OUTFALL	177.03	0.82	0.0
OF34-	OUTFALL	0.00	0.00	0.0
OF35-	OUTFALL	0.00	0.00	0.0
OF36-	OUTFALL	0.00	0.00	0.0
OF37-	OUTFALL	0.00	0.00	0.0
OF38-	OUTFALL	0.00	0.00	0.0
OF39-	OUTFALL	0.00	0.00	0.0
OF3-M	OUTFALL	177.73	0.48	0.0
OF40-	OUTFALL	0.00	0.00	0.0
OF41-	OUTFALL	0.00	0.00	0.0
OF42-	OUTFALL	0.00	0.00	0.0
OF43-	OUTFALL	0.00	0.00	0.0
OF44-	OUTFALL	0.00	0.00	0.0
OF45-	OUTFALL	0.00	0.00	0.0
OF46-	OUTFALL	0.00	0.00	0.0
OF47-	OUTFALL	0.00	0.00	0.0
OF48-	OUTFALL	0.00	0.00	0.0
OF49-	OUTFALL	0.00	0.00	0.0
OF4-M	OUTFALL	175.62	1.10	0.0
OF50	OUTFALL	0.00	0.00	0.0
OF51	OUTFALL	0.00	0.00	0.0
OF52	OUTFALL	0.00	0.00	0.0

OF53	OUTFALL	0.00	0.00	0.0
OF54	OUTFALL	0.00	0.00	0.0
OF55	OUTFALL	0.00	0.00	0.0
OF56	OUTFALL	0.00	0.00	0.0
OF57	OUTFALL	0.00	0.00	0.0
OF58	OUTFALL	0.00	0.00	0.0
OF59	OUTFALL	0.00	0.00	0.0
OF5-M	OUTFALL	182.86	1.10	0.0
OF6-	OUTFALL	175.50	0.38	0.0
OF60	OUTFALL	0.00	0.00	0.0
OF61	OUTFALL	0.00	0.00	0.0
OF7-M	OUTFALL	177.13	1.10	0.0
OF8-	OUTFALL	176.00	0.15	0.0
OF9-M	OUTFALL	179.04	0.48	0.0
Gill_RD_Pond	STORAGE	176.65	2.85	0.0
Rice_Pond	STORAGE	179.25	4.75	0.0
SCU1	STORAGE	184.50	2.00	0.0
SCU2	STORAGE	187.00	2.00	0.0
SCU3	STORAGE	187.50	2.00	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness
C_dummy	MJ48	OF1-M	CONDUIT	7.2	20.4772	0.0350
C1	J24	OF33-	CONDUIT	89.0	0.8236	0.0130
C10	4395024795240	4393014795360	CONDUIT	236.8	0.1140	0.0130
C100	MH_39	MH_47	CONDUIT	24.9	0.2366	0.0130
C106	MH_37	MH_38	CONDUIT	44.0	0.5205	0.0130
C108	CBMH_40	CBMH_41	CONDUIT	54.3	0.3717	0.0130
C11	4393014795360	MJ152	CONDUIT	251.8	0.8898	0.0130
C110	CBMH_41	MH_45	CONDUIT	16.0	0.6109	0.0130
C111	CBMH_44	MH_45	CONDUIT	24.6	0.8692	0.0130
C113	MH_43	CBMH_44	CONDUIT	23.6	0.3733	0.0130
C114	CBMH_42	MH_43	CONDUIT	10.9	0.6398	0.0130
C115	J115	CBMH_42	CONDUIT	60.3	0.3733	0.0130
C116	MH_45	CBMH_46	CONDUIT	20.1	0.5367	0.0130
C118	CBMH_46	MH_47	CONDUIT	15.5	1.0454	0.0130
C119_1	CBMH_46	MH_47	CONDUIT	15.5	0.7550	0.0130

C119_2	MH_47	MH_67	CONDUIT	70.5	0.2921	0.0130
C12	4393464795440	4393014795360	CONDUIT	87.3	0.1946	0.0130
C123	MH_66	MH_67	CONDUIT	29.6	0.3513	0.0130
C124	MH_65	MH_66	CONDUIT	13.3	0.1802	0.0130
C125	MH_67	MH_68	CONDUIT	20.9	0.6846	0.0130
C126	MH_68	Rice_Pond	CONDUIT	6.4	0.3569	0.0130
C127	RICE_POND_OUTLET	MH_69	CONDUIT	56.2	0.8861	0.0130
C128	MH_69	MH_70	CONDUIT	68.2	0.7859	0.0130
C129	MH_70	OF14-	CONDUIT	15.0	0.8000	0.0130
C13	4393464795440	MJ155	CONDUIT	151.6	0.6001	0.0130
C130	MH_64	MH_65	CONDUIT	81.8	0.3336	0.0130
C14	4395014795520	MJ155	CONDUIT	88.4	0.5315	0.0130
C145	MH_56	MH_57	CONDUIT	60.6	0.4452	0.0130
C147	MH_57	MH_58	CONDUIT	13.0	0.6923	0.0130
C15	4394754795460	4395014795520	CONDUIT	67.7	0.8271	0.0130
C150	MH_58	MH_63	CONDUIT	18.3	0.5188	0.0130
C151	CBMH_62	MH_63	CONDUIT	16.2	0.5695	0.0130
C156	MH_61	CBMH_62	CONDUIT	90.9	0.5733	0.0130
C159	MH_59	MH_61	CONDUIT	34.7	0.6925	0.0130
C16	4395694795410	4396134795480	CONDUIT	80.3	0.9461	0.0130
C160	J106	MH_59	CONDUIT	30.5	0.4918	0.0130
C161	J105	J106	CONDUIT	66.0	0.5000	0.0130
C164	CBMH5	OF16-	CONDUIT	45.6	6.1581	0.0130
C165	J38	CBMH5	CONDUIT	22.7	0.8824	0.0130
C167	MH40	MH41	CONDUIT	49.1	0.3078	0.0130
C17	4396134795480	4395014795520	CONDUIT	121.3	0.4947	0.0130
C18	4396584795550	4396134795480	CONDUIT	85.0	0.8942	0.0130
C185	MH30	MH31	CONDUIT	37.4	0.1870	0.0130
C186	MH31	MH32	CONDUIT	50.8	0.2028	0.0130
C187	MH32	MH33	CONDUIT	15.1	0.2514	0.0130
C188	MH33	MH40	CONDUIT	109.6	0.2518	0.0130
C189	DCB72	MH37	CONDUIT	32.5	1.5263	0.0130
C19	4396744795620	4395174795720	CONDUIT	185.5	0.4206	0.0130
C190	MH37	MH38	CONDUIT	61.1	0.3337	0.0130
C193	MH38	MH39	CONDUIT	17.3	0.3808	0.0130
C194	MH39	MH40	CONDUIT	118.9	0.3961	0.0130
C2	MH_38	MH_39	CONDUIT	70.0	0.3500	0.0130
C20	4396584795550	MJ156	CONDUIT	208.4	0.5662	0.0130
C200-	MH8	MH9	CONDUIT	36.4	0.6039	0.0130
C205	MH34	MH35	CONDUIT	23.5	0.2973	0.0130
C206	MH35	MH36	CONDUIT	24.6	0.2316	0.0130

C207	MH36	MH41	CONDUIT	28.7	0.2716	0.0130
C21	4394414795760	4394784795740	CONDUIT	42.9	2.2173	0.0130
C211	DICBMH42	MH42	CONDUIT	6.5	-12.8118	0.0130
C212	MH42	MH43	CONDUIT	68.8	0.1904	0.0130
C213	MH43	OF27-1	CONDUIT	52.8	0.1894	0.0130
C22	4395174795720	4394784795740	CONDUIT	45.3	3.6040	0.0130
C228	MH15_Main	MH6_Main	CONDUIT	16.9	1.4799	0.0130
C229	CB29	CB30	CONDUIT	6.2	1.7808	0.0130
C23	4395174795720	MJ156	CONDUIT	71.4	0.6724	0.0130
C230	CB30_1	MH1_Main	CONDUIT	4.4	1.8111	0.0130
C231	CB33	MH2_Main	CONDUIT	2.5	-0.4040	0.0130
C232	CB31	CB32	CONDUIT	7.2	0.9773	0.0130
C233	CB32	MH2_Main	CONDUIT	12.5	0.5619	0.0130
C234	CB34	CB35	CONDUIT	6.7	1.4976	0.0130
C235	CB35	MH3_Main	CONDUIT	15.4	1.9516	0.0130
C239	CB42	MH5_Main	CONDUIT	15.1	1.3216	0.0130
C24	MH_26	MH_27	CONDUIT	5.7	3.5541	0.0130
C240	CB41	CB42	CONDUIT	6.9	2.8989	0.0130
C244	J49	MH15_Main	CONDUIT	6.0	2.1828	0.0130
C245	CB27	J48	CONDUIT	19.7	0.3548	0.0130
C246	J48	CBMH2	CONDUIT	23.9	2.5536	0.0130
C248	MH15	MH16	CONDUIT	44.7	0.4030	0.0130
C25	4392024795890	4391544795810	CONDUIT	94.8	1.2026	0.0130
C250	CB22	MH13	CONDUIT	9.6	10.4286	0.0130
C251	CB23	MH13	CONDUIT	9.8	1.0153	0.0130
C252	CB19	CB20	CONDUIT	15.2	1.4464	0.0130
C253	CB20	MH12	CONDUIT	15.9	0.8790	0.0130
C254	MH12	MH11	CONDUIT	12.7	7.2666	0.0130
C255	CB21	MH11	CONDUIT	3.3	9.6397	0.0130
C256	CB17	MH10	CONDUIT	13.1	1.2953	0.0130
C257	CB18	MH10	CONDUIT	2.9	3.4408	0.0130
C258	CB15	MH9	CONDUIT	9.3	0.2144	0.0130
C259	CB16	MH9	CONDUIT	4.3	2.3431	0.0130
C26	MH_11	MH_15	CONDUIT	56.2	0.5422	0.0130
C260	MH7	MH8	CONDUIT	81.0	0.4319	0.0130
C263	CBMH7	MH4	CONDUIT	22.6	1.2808	0.0130
C269	CBMH2	MH16	CONDUIT	20.1	3.1390	0.0130
C27	MH_14	MH_15	CONDUIT	97.1	0.8287	0.0130
C28	MH_15	MH_16	CONDUIT	22.7	0.6432	0.0130
C281	MH6	MH7	CONDUIT	43.9	0.4552	0.0130
C284	MH5	MH6	CONDUIT	23.2	0.3450	0.0130

C285	CBMH1	MH6	CONDUIT	41.3	0.3630	0.0130
C288	CBMH_1	MH_1	CONDUIT	47.1	0.4202	0.0130
C289	MH_1	MH_2	CONDUIT	75.0	0.7815	0.0130
C29	4391194795830	4391544795810	CONDUIT	41.4	1.4494	0.0130
C292	MH_2	OGS-	CONDUIT	18.2	0.4671	0.0130
C293	OGS-	OF13-1	CONDUIT	18.7	0.9573	0.0130
C3	MH_17	MH_39	CONDUIT	58.3	0.4049	0.0100
C30	4391884795900	4392024795890	CONDUIT	19.7	0.2030	0.0130
C31	4391884795900	4391664795910	CONDUIT	22.9	0.3057	0.0130
C32	4391504795920	4391304795930	CONDUIT	21.2	0.5660	0.0130
C33	4391504795920	4391664795910	CONDUIT	22.0	0.4091	0.0130
C34	4391664795910	4391194795830	CONDUIT	93.6	0.5449	0.0130
C343	MH21	MH22	CONDUIT	21.6	0.1389	0.0130
C344	MH23	MH24	CONDUIT	93.3	0.1822	0.0130
C345	MH24	CB-58	CONDUIT	59.4	0.2357	0.0130
C346	MH25	MH26	CONDUIT	70.2	0.4845	0.0130
C347	MH26	OF24-	CONDUIT	50.3	4.9804	0.0130
C348	J125	J91	CONDUIT	8.0	9.7806	0.0130
C349	J127	J125	CONDUIT	66.5	2.3475	0.0130
C35	4391304795930	4391014795950	CONDUIT	34.6	0.8382	0.0130
C350	J128	J127	CONDUIT	67.2	0.3125	0.0130
C351	J67	J70	CONDUIT	91.7	0.7678	0.0130
C352	J70	OF6-	CONDUIT	47.1	0.8940	0.0130
C353	J66	J116	CONDUIT	35.7	0.9794	0.0130
C36	4391014795950	4390544795870	CONDUIT	92.1	0.1954	0.0130
C37	4391304795930	4390824795850	CONDUIT	91.3	0.7558	0.0130
C38	CBMH_9	MH_10	CONDUIT	34.9	0.6868	0.0130
C39	4391194795830	4390824795850	CONDUIT	44.4	0.4730	0.0130
C4	MH_63	MH_64	CONDUIT	62.9	0.3243	0.0130
C40	MH_10	MH_11	CONDUIT	16.2	0.8334	0.0130
C41	4390544795870	4390824795850	CONDUIT	33.0	0.6667	0.0130
C42	4391544795810	OF13-2	CONDUIT	57.2	4.6225	0.0130
C43	MH_13	MH_14	CONDUIT	41.3	0.6443	0.0130
C437	J34	J128	CONDUIT	25.2	1.3320	0.0130
C44	4394784795740	OF1	CONDUIT	8.0	2.5045	0.0300
C47	MH_12	MH_13	CONDUIT	60.5	1.0409	0.0130
C48	MH_29	MH_30	CONDUIT	69.5	0.6041	0.0130
C5	MJ139	Gill_RD_Pond	CONDUIT	76.4	6.9284	0.0110
C50	MH_30	MH_37	CONDUIT	16.3	2.0267	0.0130
C53	MH_27	MH_37	CONDUIT	92.0	0.8152	0.0130
C54	MH_36	MH_37	CONDUIT	63.5	0.3592	0.0130

C6	J1	J7	CONDUIT	181.3	0.4193	0.0300
C60	MH_23	MH_26	CONDUIT	100.2	0.4763	0.0130
C63	MH_22	MH_23	CONDUIT	18.0	0.9153	0.0130
C65	MH_18	MH_22	CONDUIT	83.5	0.6394	0.0130
C653	MH11	MH13	CONDUIT	42.7	0.3981	0.0130
C655	MH3	MH4	CONDUIT	63.9	0.3132	0.0130
C656	MH2	MH3	CONDUIT	42.8	0.1401	0.0130
C657	MH13	CB26	CONDUIT	68.0	0.8672	0.0130
C658	MH13	MH14	CONDUIT	40.7	0.3932	0.0130
C660	MH9_Main	MH10_Main	CONDUIT	134.7	0.6089	0.0130
C662	MH6_Main	MH7_Main	CONDUIT	92.1	-0.0109	0.0130
C663	MH4_Main	MH5_Main	CONDUIT	85.2	0.9513	0.0130
C664	MH2_Main	MH3_Main	CONDUIT	67.3	0.7871	0.0130
C665	CB30	MH1_Main	CONDUIT	16.6	7.8707	0.0130
C666	MH16	OF17-	CONDUIT	30.3	0.6605	0.0130
C667	CBMH7_ON	CBMH8_ON	CONDUIT	93.3	0.4104	0.0130
C668	CBMH9_ON	CBMH10_Main	CONDUIT	10.0	31.7073	0.0130
C669	CBMH10_Main	OF19-	CONDUIT	19.7	6.4158	0.0130
C670	CBMH3_ON	CBMH4_ON	CONDUIT	68.5	0.3604	0.0130
C671	CBMH1_ON	CBMH2_ON	CONDUIT	105.9	0.2399	0.0130
C672	J78	J83	CONDUIT	190.5	0.0002	0.0130
C673	MH13_Main	MH13_Main_	CONDUIT	74.7	0.4015	0.0130
C674	J102	OF25-	CONDUIT	42.3	6.9030	0.0130
C68	MH_21	MH_22	CONDUIT	24.4	0.6525	0.0130
C685	J4	J5	CONDUIT	62.7	0.4560	0.0130
C686	J5	J12	CONDUIT	54.6	2.6223	0.0130
C687	J12	J15	CONDUIT	40.7	5.5862	0.0130
C688	J15	J20	CONDUIT	93.1	1.2852	0.0130
C689	J62	J24	CONDUIT	40.7	0.2749	0.0130
C69	MH_20	MH_21	CONDUIT	60.0	0.6596	0.0130
C690	J30	J5	CONDUIT	86.3	1.1007	0.0130
C7	J7	MJ112	CONDUIT	49.1	3.5856	0.0300
C70	MH_19	MH_20	CONDUIT	31.1	0.7786	0.0130
C700	MH8_Main	MH9_Main	CONDUIT	27.2	0.6251	0.0130
C701	MH10_Main	MH11_Main	CONDUIT	69.8	0.6305	0.0130
C702	MH11_Main	OF3-	CONDUIT	7.4	4.5982	0.0130
C703	CBMH2_ON	CBMH3_ON	CONDUIT	90.8	0.2785	0.0130
C704	CBMH4_ON	CBMH5_ON	CONDUIT	27.1	-0.2586	0.0130
C705	CBMH5_ON	CBMH6_ON	CONDUIT	72.7	0.1114	0.0130
C707	CBMH6_ON	CBMH7_ON	CONDUIT	91.7	0.1592	0.0130
C708	CBMH8_ON	CBMH9_ON	CONDUIT	79.3	0.5004	0.0130

C709	J83	OF29-	CONDUIT	45.1	-396.0446	0.0130
C710	J95	J93	CONDUIT	10.7	2.0277	0.0130
C711	J93	J98	CONDUIT	79.8	1.2003	0.0130
C712	J101	J102	CONDUIT	64.9	1.1805	0.0130
C713	J98	J101	CONDUIT	58.9	0.6124	0.0130
C714	MH22	MH23	CONDUIT	57.9	-0.1556	0.0130
C715	MH25-1	MH25	CONDUIT	30.2	0.1987	0.0130
C716	MH9	MH10	CONDUIT	57.5	0.7128	0.0130
C717	MH4	MH8	CONDUIT	38.6	0.4399	0.0130
C718	MH1	MH2	CONDUIT	16.9	0.5316	0.0130
C727	J20	J24	CONDUIT	88.3	1.2954	0.0130
C73	MH_25	MH_26	CONDUIT	65.2	0.6423	0.0130
C734	J55	J62	CONDUIT	34.5	0.2264	0.0130
C735	J52	J55	CONDUIT	62.4	0.2034	0.0130
C736	J30	J31	CONDUIT	67.5	0.4398	0.0130
C737	J31	J36	CONDUIT	84.5	6.5747	0.0130
C738	J36	J42	CONDUIT	77.5	1.0928	0.0130
C739	J42	J43	CONDUIT	32.8	0.5860	0.0130
C740	J43	J50	CONDUIT	47.7	0.6264	0.0130
C741	J50	J24	CONDUIT	16.8	0.6248	0.0130
C751	MH7_Main	MH8_Main	CONDUIT	54.4	4.5484	0.0130
C752	MH5_Main	MH6_Main	CONDUIT	90.8	0.5617	0.0130
C753	MH3_Main	MH4_Main	CONDUIT	41.9	0.9067	0.0130
C754	MH1_Main	MH2_Main	CONDUIT	52.8	0.9467	0.0130
C755	MH14_Main	MH15_Main	CONDUIT	42.1	0.1425	0.0130
C756	MH13_Main_	MH14_Main	CONDUIT	18.2	0.1653	0.0130
C757	MH10	MH11	CONDUIT	41.1	0.4136	0.0130
C758	CB26	OF12-	CONDUIT	38.4	0.5024	0.0130
C759	J116	OF8-	CONDUIT	21.4	2.1075	0.0130
C76	MH_24	MH_25	CONDUIT	24.0	2.0878	0.0130
C760	J35	J34	CONDUIT	22.3	1.0632	0.0130
C762	J47	J125	CONDUIT	12.5	3.2016	0.0130
C763	J91	OF20-	CONDUIT	10.3	3.5775	0.0130
C764	CB-58	MH25-1	CONDUIT	69.1	0.2460	0.0130
C765	J113	J110	CONDUIT	25.4	0.3945	0.0130
C766	J110	J101	CONDUIT	60.7	0.0889	0.0130
C767	MH14	MH15	CONDUIT	29.7	0.3700	0.0130
C77	MH_35	MH_36	CONDUIT	19.6	0.3563	0.0130
C8	J8	Rice_Pond	CONDUIT	36.1	2.4884	0.0110
C80	MH_34	MH_35	CONDUIT	63.7	0.5103	0.0130
C9	MJ145	MJ146	CONDUIT	105.6	0.1610	0.0130

C94	MH_16	MH_17	CONDUIT	104.8	0.4235	0.0130
CB72	MH41	Gill_RD_Pond	CONDUIT	58.9	0.8999	0.0130
MC_C6	MJ_	MJ64	CONDUIT	21.5	2.1384	0.0130
MC1	MJ1	MJ3	CONDUIT	135.2	0.0577	0.0130
MC10	MJ9	OF2-M-	CONDUIT	124.6	1.2312	0.0130
MC100	MJ81	MJ78	CONDUIT	11.0	0.1455	0.0130
MC101	MJ78	MJ90	CONDUIT	92.0	1.5904	0.0130
MC102	MJ80	MJ73	CONDUIT	32.3	1.1394	0.0130
MC103	MJ80	MJ83	CONDUIT	24.9	0.9719	0.0130
MC104	MJ82	MJ79	CONDUIT	7.9	0.5063	0.0130
MC105	MJ82	MJ74	CONDUIT	56.6	0.0707	0.0130
MC107	MJ84	MJ77	CONDUIT	36.5	9.0478	0.0130
MC108	MJ84	MJ91	CONDUIT	60.6	2.4876	0.0130
MC109	MJ84	MJ76	CONDUIT	61.1	3.1243	0.0130
MC11	MJ10	MJ14	CONDUIT	49.5	4.0700	0.0130
MC12	MJ10	MJ2	CONDUIT	159.9	3.5989	0.0130
MC120	MJ85	MJ74	CONDUIT	66.1	1.8778	0.0130
MC121	MJ85	MJ87	CONDUIT	41.9	1.3629	0.0130
MC122	MJ85	MJ81	CONDUIT	59.8	1.2392	0.0130
MC123	MJ93	MJ85	CONDUIT	57.7	1.8617	0.0130
MC124	MJ86	MJ80	CONDUIT	86.8	1.8805	0.0130
MC125	MJ88	MJ95	CONDUIT	403.1	0.4691	0.0130
MC126	MJ89	MJ83	CONDUIT	36.8	0.7609	0.0130
MC128	MJ91	MJ102	CONDUIT	82.5	1.5456	0.0130
MC129	MJ86	MJ91	CONDUIT	60.8	0.3536	0.0130
MC13	MJ11	MJ13	CONDUIT	28.6	0.4056	0.0130
MC130	MJ91	MJ97	CONDUIT	30.7	5.5591	0.0130
MC131	MJ92	MJ99	CONDUIT	33.3	1.7720	0.0130
MC132	MJ92	MJ122	CONDUIT	287.2	0.5975	0.0130
MC133	MJ92	MJ70	CONDUIT	133.7	2.0221	0.0130
MC135	MJ84	MJ94	CONDUIT	121.6	0.9268	0.0130
MC136	MJ95	MJ112	CONDUIT	81.9	0.6447	0.0130
MC137	MJ103	MJ96	CONDUIT	71.8	0.1267	0.0130
MC139	MJ98	MJ87	CONDUIT	106.9	0.0440	0.0130
MC14	MJ12	MJ3	CONDUIT	167.3	0.9635	0.0130
MC141	MJ101	MJ98	CONDUIT	20.7	1.5606	0.0130
MC142	MJ108	MJ98	CONDUIT	63.1	3.6601	0.0130
MC143	MJ99	MJ104	CONDUIT	59.7	1.9736	0.0130
MC144	MJ99	MJ107	CONDUIT	53.1	2.2812	0.0130
MC145	MJ100	OF9-M	CONDUIT	138.6	2.3246	0.0130
MC146	MJ103	MJ97	CONDUIT	29.3	1.9492	0.0130

MC147	MJ104	MJ116	CONDUIT	142.9	1.5579	0.0130
MC148	MJ115	MJ105	CONDUIT	61.4	1.5490	0.0130
MC149	MJ106	MJ102	CONDUIT	39.2	1.8115	0.0130
MC15	MJ14	MJ30	CONDUIT	22.9	0.5883	0.0130
MC150	MJ107	MJ129	CONDUIT	206.3	1.1586	0.0130
MC151	MJ104	MJ107	CONDUIT	29.0	0.1138	0.0130
MC152	MJ108	MJ93	CONDUIT	150.2	0.4727	0.0130
MC153	MJ108	MJ118	CONDUIT	62.4	1.5515	0.0130
MC154	MJ109	MJ114	CONDUIT	25.0	1.4442	0.0130
MC155	MJ109	MJ103	CONDUIT	37.9	4.9930	0.0130
MC156	MJ110	MJ128	CONDUIT	118.5	0.0262	0.0130
MC157	MJ111	MJ110	CONDUIT	74.0	0.6000	0.0130
MC158	MJ111	MJ112	CONDUIT	58.1	3.3254	0.0130
MC159	MJ112	MJ119	CONDUIT	53.0	0.7963	0.0130
MC16	MJ15	MJ36	CONDUIT	260.4	2.2510	0.0130
MC160	MJ113	MJ102	CONDUIT	59.9	2.2928	0.0130
MC161	MJ113	MJ103	CONDUIT	86.8	1.4183	0.0130
MC162	MJ114	MJ120	CONDUIT	85.2	0.7148	0.0130
MC163	MJ114	MJ101	CONDUIT	125.8	0.6717	0.0130
MC164	MJ117	MJ115	CONDUIT	27.5	0.4255	0.0130
MC165	MJ116	MJ129	CONDUIT	80.1	0.2459	0.0130
MC166	MJ117	MJ131	CONDUIT	101.8	1.2653	0.0130
MC167	MJ117	MJ90	CONDUIT	147.0	2.6315	0.0130
MC168	MJ118	MJ105	CONDUIT	150.7	0.1573	0.0130
MC169	MJ119	OF26-M	CONDUIT	75.5	2.2310	0.0110
MC17	MJ15	MJ7	CONDUIT	93.9	2.0697	0.0130
MC170	MJ113	MJ120	CONDUIT	61.3	0.5073	0.0130
MC171	MJ121	MJ115	CONDUIT	74.5	1.6620	0.0130
MC172	MJ122	MJ100	CONDUIT	133.6	1.4897	0.0130
MC173	MJ123	MJ114	CONDUIT	62.5	4.1716	0.0130
MC174	MJ123	MJ127	CONDUIT	79.9	1.5985	0.0130
MC175	MJ123	MJ130	CONDUIT	62.4	1.7150	0.0130
MC176	MJ123	MJ108	CONDUIT	146.0	1.0035	0.0130
MC177	MJ124	MJ119	CONDUIT	39.3	0.4300	0.0130
MC178	MJ125	MJ118	CONDUIT	59.8	2.3468	0.0130
MC179	MJ126	MJ131	CONDUIT	44.9	2.0049	0.0130
MC18	MJ16	MJ13	CONDUIT	89.0	0.0494	0.0130
MC180	MJ126	MJ122	CONDUIT	88.7	1.0158	0.0130
MC181	MJ127	MJ120	CONDUIT	62.4	3.1057	0.0130
MC182_1	MJ128	MH41_S	CONDUIT	49.8	0.4619	0.0130
MC182_2	MH36_S	MH34_S	CONDUIT	36.1	1.3508	0.0130

MC182_3	MH36_S	MH41_S	CONDUIT	28.8	0.3848	0.0130
MC182_5	MH34_S	MJ124	CONDUIT	33.6	3.2856	0.0130
MC183	MJ129	MJ132	CONDUIT	28.7	0.1324	0.0130
MC184	MJ130	MJ118	CONDUIT	143.9	0.9472	0.0130
MC185	MJ131	MJ135	CONDUIT	67.8	1.4751	0.0130
MC186	MJ131	MJ136	CONDUIT	53.3	1.6663	0.0130
MC187	MJ133	MJ125	CONDUIT	98.4	0.4624	0.0130
MC188	MJ147	MJ134	CONDUIT	173.9	0.9328	0.0130
MC189	MJ136	MJ134	CONDUIT	97.4	2.0292	0.0130
MC19	MJ17	MJ19	CONDUIT	20.2	4.1620	0.0130
MC190	MJ136	MJ148	CONDUIT	187.8	0.1874	0.0130
MC191	MJ137	MJ134	CONDUIT	270.3	0.3862	0.0130
MC192	MJ138	MJ130	CONDUIT	82.2	2.1465	0.0130
MC193	MJ138	MJ143	CONDUIT	110.3	3.3328	0.0130
MC194_1	MH37_S	MJ139	CONDUIT	27.9	1.4505	0.0130
MC194_2	MH37_S	MJ140	CONDUIT	79.1	0.2034	0.0130
MC195	MJ140	MJ128	CONDUIT	131.2	0.0663	0.0130
MC196	MJ149	MH2_S	CONDUIT	23.9	0.2093	0.0130
MC197	MH3_S	MH2_S	CONDUIT	42.6	0.3760	0.0130
MC198	MJ143	MH3_S	CONDUIT	68.5	0.0730	0.0130
MC199	MJ143	MH8_S	CONDUIT	28.8	0.6939	0.0130
MC2	MJ2	MJ1	CONDUIT	43.3	0.6537	0.0130
MC20	MJ25	MJ18	CONDUIT	41.3	0.2322	0.0130
MC200	MH8_S	MH9__S	CONDUIT	41.7	0.5519	0.0130
MC201	MH9__S	MH10__S	CONDUIT	57.2	1.0142	0.0130
MC202	MH10__S	MH11__S	CONDUIT	42.2	0.9005	0.0130
MC203	MJ144	MJ145	CONDUIT	172.1	0.1859	0.0130
MC204	MJ144	MJ124	CONDUIT	199.9	1.2367	0.0130
MC205	MJ145	OF22_M	CONDUIT	55.0	2.5754	0.0130
MC206	MJ147	MH21_S	CONDUIT	67.2	0.3124	0.0130
MC207_1	MH21_S	J9	CONDUIT	23.4	0.3116	0.0130
MC207_3	J9	J10	CONDUIT	60.9	0.3120	0.0130
MC207_4	J10	MJ146	CONDUIT	55.8	0.3138	0.0130
MC208	MJ148	MJ147	CONDUIT	23.7	0.0084	0.0130
MC209	MJ150	MJ151	CONDUIT	45.7	2.3179	0.0130
MC21	MJ19	OF4-M	CONDUIT	39.7	13.9110	0.0130
MC210	MJ150	MH8_S	CONDUIT	139.7	0.3442	0.0130
MC211	MJ151	OF11-M	CONDUIT	12.4	4.6987	0.0130
MC212	MJ152	MJ148	CONDUIT	288.9	0.2388	0.0130
MC213	MJ153	MJ152	CONDUIT	245.8	0.2522	0.0130
MC214_1	MJ154	J8	CONDUIT	73.9	0.1056	0.0130

MC214_2	J8	MJ153	CONDUIT	72.7	0.1059	0.0130
MC215	MJ155	MJ154	CONDUIT	125.0	0.5648	0.0130
MC216	MJ156	MJ155	CONDUIT	105.8	0.6323	0.0130
MC217	MJ156	MJ154	CONDUIT	187.0	0.7353	0.0130
MC219	MJ135	MJ142	CONDUIT	72.7	0.8639	0.0130
MC22	MJ20	MJ32	CONDUIT	77.6	1.7280	0.0130
MC220	MJ135	MH11__S	CONDUIT	42.3	1.1336	0.0130
MC221	MJ53	MJ61	CONDUIT	58.5	2.5772	0.0130
MC223	MJ53	MJ46	CONDUIT	55.3	1.2482	0.0130
MC224	MJ54	MJ37	CONDUIT	94.3	4.0462	0.0130
MC225	MJ68	MJ75	CONDUIT	37.1	3.3579	0.0130
MC226	MJ79	MJ72	CONDUIT	28.7	0.7328	0.0130
MC227	MJ83	MJ72	CONDUIT	90.7	0.0441	0.0130
MC228	MJ89	MJ82	CONDUIT	90.5	0.0774	0.0130
MC229	MJ96	MJ89	CONDUIT	75.8	0.2044	0.0130
MC23	MJ21	MJ13	CONDUIT	131.7	0.2475	0.0130
MC230	MJ98	MJ89	CONDUIT	60.9	0.9969	0.0130
MC231	MJ93	MJ105	CONDUIT	63.5	0.7798	0.0130
MC232	MJ18	MJ26	CONDUIT	61.8	0.7819	0.0130
MC24	MJ22	OF32-M	CONDUIT	84.3	1.4723	0.0130
MC25	MJ23	MJ21	CONDUIT	34.3	0.9826	0.0130
MC26	MJ45	MJ25	CONDUIT	60.8	2.1998	0.0130
MC27	MJ26	OF31-M	CONDUIT	95.3	1.5725	0.0130
MC28	MJ27	OF2-M	CONDUIT	95.8	2.8401	0.0130
MC29	MJ28	MJ32	CONDUIT	40.6	2.8199	0.0130
MC3	MJ3	OF7-M	CONDUIT	20.9	1.2253	0.0130
MC30	MJ28	MJ31	CONDUIT	53.6	3.7550	0.0130
MC31	MJ17	MJ29	CONDUIT	88.9	0.8887	0.0130
MC32	MJ30	MJ31	CONDUIT	78.6	0.3522	0.0130
MC33	MJ31	MJ1	CONDUIT	86.7	4.1641	0.0130
MC34	MJ32	MJ57	CONDUIT	101.0	3.0805	0.0130
MC35	MJ33	MJ29	CONDUIT	32.9	1.9730	0.0130
MC36	MJ33	MJ38	CONDUIT	47.9	0.0397	0.0130
MC37	MJ34	MJ21	CONDUIT	54.9	1.3972	0.0130
MC38	MJ35	MJ27	CONDUIT	41.9	0.7995	0.0130
MC39	MJ36	MJ24	CONDUIT	173.3	0.4963	0.0130
MC4	MJ4	MJ2	CONDUIT	63.0	3.0989	0.0130
MC40	MJ158	MJ44	CONDUIT	40.0	0.2123	0.0130
MC41	MJ37	MJ48	CONDUIT	129.5	1.6902	0.0130
MC42	MJ39	MJ47	CONDUIT	30.9	3.6237	0.0130
MC43	MJ39	MJ29	CONDUIT	79.1	3.6801	0.0130

MC44	MJ40	MJ19	CONDUIT	124.8	1.5467	0.0130
MC45	MJ40	MJ47	CONDUIT	55.7	0.1616	0.0130
MC46	MJ41	MJ25	CONDUIT	69.8	0.0487	0.0130
MC47	MJ42	MJ35	CONDUIT	55.8	0.8961	0.0130
MC48	MJ43	MJ22	CONDUIT	206.3	0.2385	0.0130
MC49	MJ43	MJ67	CONDUIT	226.5	0.2927	0.0130
MC5	MJ5	MJ10	CONDUIT	19.1	0.6550	0.0130
MC50	MJ44	MJ26	CONDUIT	144.4	0.3587	0.0130
MC51	MJ45	MJ26	CONDUIT	67.7	2.8309	0.0130
MC52	MJ45	MJ20	CONDUIT	51.3	2.9504	0.0130
MC53	MJ46	MJ35	CONDUIT	63.7	2.2062	0.0130
MC54	MJ49	MJ47	CONDUIT	23.3	0.3004	0.0130
MC55	MJ49	MJ58	CONDUIT	54.2	0.8875	0.0130
MC56	MJ56	MJ49	CONDUIT	45.8	0.0371	0.0130
MC57	MJ49	MJ38	CONDUIT	67.0	1.8361	0.0130
MC58	MJ50	MJ52	CONDUIT	27.6	0.0435	0.0130
MC59	MJ51	MJ55	CONDUIT	99.2	2.5240	0.0130
MC6	MJ13	OF3-M	CONDUIT	79.6	1.0905	0.0130
MC62	MJ54	MJ61	CONDUIT	36.0	4.7442	0.0130
MC64	MJ55	MJ48	CONDUIT	45.0	4.6316	0.0130
MC65	MJ56	MJ63	CONDUIT	58.9	1.1665	0.0130
MC66	MJ56	MJ34	CONDUIT	146.2	2.2057	0.0130
MC67	MJ56	MJ74	CONDUIT	85.4	0.3126	0.0130
MC68	MJ57	MJ3	CONDUIT	39.4	3.6608	0.0130
MC69	MJ52	MJ58	CONDUIT	38.1	0.4514	0.0130
MC7	MJ7	MJ22	CONDUIT	333.2	0.1279	0.0130
MC70	MJ60	MJ55	CONDUIT	42.2	3.5069	0.0130
MC71	MJ62	MJ69	CONDUIT	71.4	2.2078	0.0130
MC72	MJ62	MJ51	CONDUIT	50.3	5.6551	0.0130
MC73	MJ63	MJ42	CONDUIT	112.4	1.4014	0.0130
MC74	MJ63	MJ64	CONDUIT	18.0	0.3333	0.0130
MC75	MJ72	MJ63	CONDUIT	54.8	0.3832	0.0130
MC76	MJ_	MJ53	CONDUIT	34.0	1.1168	0.0130
MC77	MJ65	MJ73	CONDUIT	28.0	0.4357	0.0130
MC78	MJ65	MJ61	CONDUIT	37.1	4.6736	0.0130
MC79	MJ66	MJ55	CONDUIT	57.6	3.0587	0.0130
MC8	MJ8	MJ36	CONDUIT	243.0	2.6058	0.0130
MC80	MJ67	MJ92	CONDUIT	237.2	0.0105	0.0130
MC82	MJ68	MJ59	CONDUIT	52.0	4.3676	0.0130
MC83	MJ68	MJ59	CONDUIT	83.2	2.7282	0.0130
MC84	MJ69	MJ60	CONDUIT	54.2	4.2252	0.0130

MC85	MJ70	MJ100	CONDUIT	282.1	0.3555	0.0130
MC86	MJ70	OF30-M	CONDUIT	133.3	2.5778	0.0130
MC87	MJ71	MJ48	CONDUIT	114.6	2.2320	0.0130
MC89	MJ73	MJ64	CONDUIT	74.1	0.2483	0.0130
MC9	MJ8	MJ15	CONDUIT	154.2	0.3048	0.0130
MC90	MJ78	MJ75	CONDUIT	16.0	1.0251	0.0130
MC91	MJ75	OF5-M	CONDUIT	38.8	0.2835	0.0130
MC92	MJ76	MJ69	CONDUIT	35.2	4.0943	0.0130
MC93	MJ76	MJ65	CONDUIT	84.9	1.4866	0.0130
MC97	MJ86	MJ76	CONDUIT	59.5	1.0353	0.0130
MC98	MJ77	MJ66	CONDUIT	50.5	4.0925	0.0130
MC99	MJ77	MJ69	CONDUIT	59.5	0.0992	0.0130
MJ-C5	J1	J2	CONDUIT	172.3	0.1625	0.0300
MJ-C6	J2	J3	CONDUIT	167.9	0.7682	0.0300
MJ-C7	J3	J6	CONDUIT	110.4	0.3169	0.0300
MJ-C8	J6	OF27-M	CONDUIT	80.0	2.9621	0.0300
OL5	Gill_RD_Pond	DICBMH42	ORIFICE			
OR1	SCU1	MH_59	ORIFICE			
OR2	SCU2	4394754795460	ORIFICE			
OR3	SCU3	MJ152	ORIFICE			
OL1	Rice_Pond	RICE_POND_OUTLET	OUTLET			
OL10	MH3_S	MH3	OUTLET			
OL11	MJ148	CBMH5	OUTLET			
OL12	MJ147	J128	OUTLET			
OL13	MH21_S	MH21	OUTLET			
OL14	MJ146	MH24	OUTLET			
OL15	MH9__S	MH9	OUTLET			
OL16	MJ21	MH9_Main	OUTLET			
OL17	MJ13	MH10_Main	OUTLET			
OL18	MJ151	MH5	OUTLET			
OL19	MJ112	MH30	OUTLET			
OL2	MJ135	MH13	OUTLET			
OL20	MH34_S	MH34	OUTLET			
OL21	MH37_S	MH37	OUTLET			
OL22	MJ56	MH6_Main	OUTLET			
OL23	MJ74	MH5_Main	OUTLET			
OL24	MJ93	MH3_Main	OUTLET			
OL25	MJ105	MH2_Main	OUTLET			
OL26	MJ115	MH1_Main	OUTLET			
OL27	MJ154	MH_39	OUTLET			
OL28	MJ134	J125	OUTLET			

OL29	MJ142	CB26	OUTLET
OL3	MH2_S	MH2	OUTLET
OL30	MJ67	CBMH1_ON	OUTLET
OL31	MJ15	J5	OUTLET
OL32	MJ36	J24	OUTLET
OL33	MJ8	J31	OUTLET
OL34	MJ24	J52	OUTLET
OL35	MJ104	J95	OUTLET
OL36	MJ107	J113	OUTLET
OL37	MJ129	J101	OUTLET
OL38	MJ132	J102	OUTLET
OL39	MJ92	CBMH5_ON	OUTLET
OL4	MJ143	MH4	OUTLET
OL40	MJ122	CBMH8_ON	OUTLET
OL41	MJ126	CBMH9_ON	OUTLET
OL42	MJ145	CB-58	OUTLET
OL43	MJ144	MH26	OUTLET
OL44	MJ156	MH_15	OUTLET
OL45	MJ155	MH_37	OUTLET
OL46	MJ153	MH_65	OUTLET
OL47	MJ73	MH13_Main	OUTLET
OL48	MJ63	MH14_Main	OUTLET
OL49	MJ64	MH13_Main_	OUTLET
OL50	MJ140	MH39	OUTLET
OL51	MJ128	MH40	OUTLET
OL52	MJ110	MH32	OUTLET
OL53	MJ3	J70	OUTLET
OL54	MJ85	MH4_Main	OUTLET
OL55	MH8_S	MH8	OUTLET
OL56	J9	MH22	OUTLET
OL57	J10	MH23	OUTLET
OL58	4390544795870	CBMH_1	OUTLET
OL59	4395174795720	MH_10	OUTLET
OL6	MJ131	CBMH2	OUTLET
OL60	4396584795550	MH_18	OUTLET
OL61	4396584795550	MH_12	OUTLET
OL62	MH_19	4395694795410	OUTLET
OL63	4393464795440	MH_34	OUTLET
OL7	MJ152	MH_56	OUTLET
OL8	MH10__S	MH10	OUTLET
OL9	MH11__S	MH11	OUTLET

OR4 J8 MH_67 OUTLET

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C_dummy	TRIANGULAR	1.00	1.20	0.38	2.40	1	8.20
C1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.30
C10	Main_Street	0.35	4.72	0.24	23.30	1	4.77
C100	CIRCULAR	0.82	0.53	0.21	0.82	1	0.70
C106	CIRCULAR	0.68	0.36	0.17	0.68	1	0.61
C108	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C11	Main_Street	0.35	4.72	0.24	23.30	1	13.32
C110	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C111	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C113	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C114	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C115	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C116	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C118	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C119_1	CIRCULAR	0.82	0.53	0.21	0.82	1	1.25
C119_2	CIRCULAR	0.82	0.53	0.21	0.82	1	0.78
C12	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	7.61
C123	CIRCULAR	0.45	0.16	0.11	0.45	1	0.17
C124	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C125	CIRCULAR	0.90	0.64	0.23	0.90	1	1.50
C126	CIRCULAR	0.90	0.64	0.23	0.90	1	1.08
C127	CIRCULAR	0.53	0.22	0.13	0.53	1	0.40
C128	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C129	CIRCULAR	0.53	0.22	0.13	0.53	1	0.38
C13	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	13.37
C130	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C14	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	70.22
C145	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C147	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C15	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	15.70
C150	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C151	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13

C156	CIRCULAR	0.38	0.11	0.09	0.38	1	0.13
C159	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C16	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	16.79
C160	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C161	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C164	CIRCULAR	0.45	0.16	0.11	0.45	1	0.71
C165	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C167	CIRCULAR	0.53	0.22	0.13	0.53	1	0.24
C17	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	67.75
C18	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	16.32
C185	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C186	CIRCULAR	0.53	0.22	0.13	0.53	1	0.19
C187	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C188	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C189	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C19	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	62.46
C190	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C193	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C194	CIRCULAR	0.38	0.11	0.09	0.38	1	0.11
C2	CIRCULAR	0.68	0.36	0.17	0.68	1	0.50
C20	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	12.99
C200-	CIRCULAR	0.60	0.28	0.15	0.60	1	0.48
C205	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C206	CIRCULAR	0.45	0.16	0.11	0.45	1	0.14
C207	CIRCULAR	0.45	0.16	0.11	0.45	1	0.15
C21	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.42
C211	CIRCULAR	0.82	0.53	0.21	0.82	1	5.14
C212	CIRCULAR	0.82	0.53	0.21	0.82	1	0.63
C213	CIRCULAR	0.82	0.53	0.21	0.82	1	0.62
C22	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	182.85
C228	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C229	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C23	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.98
C230	CIRCULAR	0.30	0.07	0.07	0.30	1	0.13
C231	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C232	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C233	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C234	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C235	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C239	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C24	CIRCULAR	0.53	0.22	0.13	0.53	1	0.81

C240	CIRCULAR	0.30	0.07	0.07	0.30	1	0.16
C244	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C245	CIRCULAR	0.38	0.11	0.09	0.38	1	0.10
C246	CIRCULAR	0.53	0.22	0.13	0.53	1	0.69
C248	CIRCULAR	0.82	0.53	0.21	0.82	1	0.91
C25	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	105.63
C250	CIRCULAR	0.30	0.07	0.07	0.30	1	0.31
C251	CIRCULAR	0.30	0.07	0.07	0.30	1	0.10
C252	CIRCULAR	0.30	0.07	0.07	0.30	1	0.12
C253	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C254	CIRCULAR	0.30	0.07	0.07	0.30	1	0.26
C255	CIRCULAR	0.30	0.07	0.07	0.30	1	0.30
C256	CIRCULAR	0.38	0.11	0.09	0.38	1	0.20
C257	CIRCULAR	0.30	0.07	0.07	0.30	1	0.18
C258	CIRCULAR	0.30	0.07	0.07	0.30	1	0.04
C259	CIRCULAR	0.30	0.07	0.07	0.30	1	0.15
C26	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21
C260	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C263	CIRCULAR	0.30	0.07	0.07	0.30	1	0.11
C269	CIRCULAR	0.38	0.11	0.09	0.38	1	0.31
C27	CIRCULAR	0.38	0.11	0.09	0.38	1	0.16
C28	CIRCULAR	0.60	0.28	0.15	0.60	1	0.49
C281	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C284	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C285	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C288	CIRCULAR	0.30	0.07	0.07	0.30	1	0.06
C289	CIRCULAR	0.45	0.16	0.11	0.45	1	0.25
C29	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	115.96
C292	CIRCULAR	0.45	0.16	0.11	0.45	1	0.19
C293	CIRCULAR	0.45	0.16	0.11	0.45	1	0.28
C3	CIRCULAR	0.60	0.28	0.15	0.60	1	0.51
C30	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.40
C31	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.25
C32	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	72.47
C33	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	61.61
C34	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	71.10
C343	CIRCULAR	0.38	0.11	0.09	0.38	1	0.07
C344	CIRCULAR	0.68	0.36	0.17	0.68	1	0.36
C345	CIRCULAR	0.82	0.53	0.21	0.82	1	0.70
C346	CIRCULAR	0.82	0.53	0.21	0.82	1	1.00
C347	CIRCULAR	0.82	0.53	0.21	0.82	1	3.20

C348	CIRCULAR	0.45	0.16	0.11	0.45	1	0.89
C349	CIRCULAR	0.45	0.16	0.11	0.45	1	0.44
C35	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	88.18
C350	CIRCULAR	0.40	0.13	0.10	0.40	1	0.12
C351	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C352	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C353	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C36	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	42.58
C37	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	83.73
C38	CIRCULAR	0.45	0.16	0.11	0.45	1	0.24
C39	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	66.24
C4	CIRCULAR	0.45	0.16	0.11	0.45	1	0.16
C40	CIRCULAR	0.45	0.16	0.11	0.45	1	0.26
C41	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.64
C42	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	207.08
C43	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C437	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C44	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	2.96
C47	CIRCULAR	0.25	0.05	0.06	0.25	1	0.06
C48	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C5	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	13.42
C50	CIRCULAR	0.30	0.07	0.07	0.30	1	0.14
C53	CIRCULAR	0.60	0.28	0.15	0.60	1	0.55
C54	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C6	TRIANGULAR	1.00	1.20	0.38	2.40	1	1.37
C60	CIRCULAR	0.45	0.16	0.11	0.45	1	0.20
C63	CIRCULAR	0.38	0.11	0.09	0.38	1	0.17
C65	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C653	CIRCULAR	0.75	0.44	0.19	0.75	1	0.70
C655	CIRCULAR	0.60	0.28	0.15	0.60	1	0.34
C656	CIRCULAR	0.60	0.28	0.15	0.60	1	0.23
C657	CIRCULAR	0.68	0.36	0.17	0.68	1	0.78
C658	CIRCULAR	0.82	0.53	0.21	0.82	1	0.90
C660	CIRCULAR	0.45	0.16	0.11	0.45	1	0.22
C662	CIRCULAR	0.45	0.16	0.11	0.45	1	0.03
C663	CIRCULAR	0.45	0.16	0.11	0.45	1	0.28
C664	CIRCULAR	0.45	0.16	0.11	0.45	1	0.25
C665	CIRCULAR	0.30	0.07	0.07	0.30	1	0.27
C666	CIRCULAR	0.82	0.53	0.21	0.82	1	1.17
C667	CIRCULAR	0.60	0.28	0.15	0.60	1	0.39
C668	CIRCULAR	0.75	0.44	0.19	0.75	1	6.27

C669	CIRCULAR	0.82	0.53	0.21	0.82	1	3.64
C670	CIRCULAR	0.60	0.28	0.15	0.60	1	0.37
C671	CIRCULAR	0.53	0.22	0.13	0.53	1	0.22
C672	CIRCULAR	0.30	0.07	0.07	0.30	1	0.00
C673	CIRCULAR	0.45	0.16	0.11	0.45	1	0.18
C674	CIRCULAR	0.45	0.16	0.11	0.45	1	0.75
C68	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C685	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C686	CIRCULAR	0.38	0.11	0.09	0.38	1	0.28
C687	CIRCULAR	0.38	0.11	0.09	0.38	1	0.41
C688	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C689	CIRCULAR	0.68	0.36	0.17	0.68	1	0.44
C69	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C690	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18
C7	TRIANGULAR	1.00	1.20	0.38	2.40	1	4.00
C70	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C700	CIRCULAR	0.45	0.16	0.11	0.45	1	0.23
C701	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C702	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C703	CIRCULAR	0.47	0.18	0.12	0.47	1	0.17
C704	CIRCULAR	0.60	0.28	0.15	0.60	1	0.31
C705	CIRCULAR	0.60	0.28	0.15	0.60	1	0.20
C707	CIRCULAR	0.60	0.28	0.15	0.60	1	0.25
C708	CIRCULAR	0.60	0.28	0.15	0.60	1	0.43
C709	CIRCULAR	0.30	0.07	0.07	0.30	1	1.92
C710	CIRCULAR	0.25	0.05	0.06	0.25	1	0.08
C711	CIRCULAR	0.25	0.05	0.06	0.25	1	0.07
C712	CIRCULAR	0.38	0.11	0.09	0.38	1	0.19
C713	CIRCULAR	0.25	0.05	0.06	0.25	1	0.05
C714	CIRCULAR	0.60	0.28	0.15	0.60	1	0.24
C715	CIRCULAR	0.82	0.53	0.21	0.82	1	0.64
C716	CIRCULAR	0.75	0.44	0.19	0.75	1	0.94
C717	CIRCULAR	0.60	0.28	0.15	0.60	1	0.41
C718	CIRCULAR	0.30	0.07	0.07	0.30	1	0.07
C727	CIRCULAR	0.53	0.22	0.13	0.53	1	0.49
C73	CIRCULAR	0.30	0.07	0.07	0.30	1	0.08
C734	CIRCULAR	0.68	0.36	0.17	0.68	1	0.40
C735	CIRCULAR	0.68	0.36	0.17	0.68	1	0.38
C736	CIRCULAR	0.38	0.11	0.09	0.38	1	0.12
C737	CIRCULAR	0.38	0.11	0.09	0.38	1	0.45
C738	CIRCULAR	0.38	0.11	0.09	0.38	1	0.18

C739	CIRCULAR	0.53	0.22	0.13	0.53	1	0.33
C740	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C741	CIRCULAR	0.53	0.22	0.13	0.53	1	0.34
C751	CIRCULAR	0.45	0.16	0.11	0.45	1	0.61
C752	CIRCULAR	0.45	0.16	0.11	0.45	1	0.21
C753	CIRCULAR	0.45	0.16	0.11	0.45	1	0.27
C754	CIRCULAR	0.30	0.07	0.07	0.30	1	0.09
C755	CIRCULAR	0.45	0.16	0.11	0.45	1	0.11
C756	CIRCULAR	0.45	0.16	0.11	0.45	1	0.12
C757	CIRCULAR	0.75	0.44	0.19	0.75	1	0.72
C758	CIRCULAR	0.68	0.36	0.17	0.68	1	0.60
C759	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C76	CIRCULAR	0.25	0.05	0.06	0.25	1	0.09
C760	CIRCULAR	0.15	0.02	0.04	0.15	1	0.02
C762	CIRCULAR	0.30	0.07	0.07	0.30	1	0.17
C763	CIRCULAR	0.45	0.16	0.11	0.45	1	0.54
C764	CIRCULAR	0.82	0.53	0.21	0.82	1	0.71
C765	CIRCULAR	0.25	0.05	0.06	0.25	1	0.04
C766	CIRCULAR	0.25	0.05	0.06	0.25	1	0.02
C767	CIRCULAR	0.82	0.53	0.21	0.82	1	0.87
C77	CIRCULAR	0.53	0.22	0.13	0.53	1	0.26
C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	8.04
C80	CIRCULAR	0.45	0.16	0.11	0.45	1	0.20
C9	Gill_Rd_	1.10	31.42	0.52	44.00	1	62.58
C94	CIRCULAR	0.60	0.28	0.15	0.60	1	0.40
CB72	CIRCULAR	0.53	0.22	0.13	0.53	1	0.41
MC_C6	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	140.85
MC1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	23.13
MC10	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.88
MC100	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	36.73
MC101	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.47
MC102	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	102.81
MC103	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.96
MC104	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.54
MC105	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	25.61
MC107	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	289.72
MC108	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	151.91
MC109	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	170.25
MC11	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.32
MC12	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	182.72
MC120	Main_Street	0.35	4.72	0.24	23.30	1	19.35

MC121	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	112.45
MC122	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.22
MC123	Main_Street	0.35	4.72	0.24	23.30	1	19.26
MC124	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	132.08
MC125	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.97
MC126	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	84.02
MC128	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.75
MC129	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.28
MC13	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	61.34
MC130	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	227.10
MC131	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	22.98
MC132	Ontario_Street	0.35	4.71	0.26	19.00	1	11.26
MC133	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	136.97
MC135	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	92.73
MC136	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.34
MC137	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	34.29
MC139	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.20
MC14	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	94.54
MC141	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.32
MC142	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.27
MC143	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.25
MC144	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.07
MC145	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	26.32
MC146	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	134.47
MC147	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.22
MC148	Main_Street	0.35	4.72	0.24	23.30	1	17.57
MC149	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	129.64
MC15	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	73.88
MC150	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	103.67
MC151	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	32.49
MC152	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	66.22
MC153	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.97
MC154	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	115.75
MC155	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	215.22
MC156	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	15.58
MC157	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	74.61
MC158	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.64
MC159	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.95
MC16	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	144.51
MC160	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	145.84
MC161	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.71

MC162	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	81.43
MC163	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	78.94
MC164	Main_Street	0.35	4.72	0.24	23.30	1	9.21
MC165	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.56
MC166	Main_Street	0.35	4.72	0.24	23.30	1	15.88
MC167	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	156.25
MC168	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	38.20
MC169	TRAPEZOIDAL	1.00	5.40	0.62	8.40	1	53.26
MC17	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	138.57
MC170	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	68.61
MC171	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	124.17
MC172	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	21.07
MC173	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.73
MC174	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	121.78
MC175	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.14
MC176	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.49
MC177	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.16
MC178	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	147.55
MC179	Ontario_Street	0.35	4.71	0.26	19.00	1	20.63
MC18	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.42
MC180	Ontario_Street	0.35	4.71	0.26	19.00	1	14.69
MC181	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.74
MC182_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.46
MC182_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	111.95
MC182_3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.75
MC182_5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	174.59
MC183	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	35.05
MC184	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.74
MC185	Ontario_Street	0.35	4.71	0.26	19.00	1	17.70
MC186	Main_Street	0.35	4.72	0.24	23.30	1	18.22
MC187	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	65.50
MC188	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	93.02
MC189	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	24.59
MC19	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.50
MC190	Ontario_Street	0.35	4.71	0.26	19.00	1	6.31
MC191	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.86
MC192	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	141.11
MC193	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	175.84
MC194_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	116.00
MC194_2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.44
MC195	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	24.80

MC196	Ontario_Street	0.35	4.71	0.26	19.00	1	6.67
MC197	Ontario_Street	0.35	4.71	0.26	19.00	1	8.93
MC198	Ontario_Street	0.35	4.71	0.26	19.00	1	3.94
MC199	Ontario_Street	0.35	4.71	0.26	19.00	1	12.14
MC2	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.88
MC20	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	46.41
MC200	Ontario_Street	0.35	4.71	0.26	19.00	1	10.82
MC201	Ontario_Street	0.35	4.71	0.26	19.00	1	14.67
MC202	Ontario_Street	0.35	4.71	0.26	19.00	1	13.83
MC203	Gill_Rd_	1.10	31.42	0.52	44.00	1	67.25
MC204	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	107.11
MC205	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.57
MC206	Gill_Rd_	1.10	31.42	0.52	44.00	1	87.17
MC207_1	Gill_Rd_	1.10	31.42	0.52	44.00	1	87.05
MC207_3	Gill_Rd_	1.10	31.42	0.52	44.00	1	87.11
MC207_4	Gill_Rd_	1.10	31.42	0.52	44.00	1	87.35
MC208	Gill_Rd	0.35	5.92	0.26	24.00	1	1.70
MC209	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	146.64
MC21	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	359.24
MC210	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	56.51
MC211	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.79
MC212	Main_Street	0.35	4.72	0.24	23.30	1	6.90
MC213	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.67
MC214_1	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	31.30
MC214_2	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	5.62
MC215	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	72.39
MC216	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	76.59
MC217	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.59
MC219	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	89.52
MC22	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	126.62
MC220	Ontario_Street	0.35	4.71	0.26	19.00	1	15.51
MC221	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	154.63
MC223	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	19.28
MC224	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	193.75
MC225	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	176.50
MC226	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	82.45
MC227	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.22
MC228	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	26.79
MC229	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	43.54
MC23	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	8.59
MC230	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	96.17

MC231	Main_Street	0.35	4.72	0.24	23.30	1	12.47
MC232	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	85.17
MC24	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	116.87
MC25	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	95.47
MC26	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	142.86
MC27	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	120.78
MC28	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.32
MC29	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	161.74
MC3	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	106.62
MC30	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	186.64
MC31	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.80
MC32	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.16
MC33	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	196.55
MC34	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.05
MC35	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	135.29
MC36	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	19.18
MC37	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	20.40
MC38	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	86.13
MC39	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	67.85
MC4	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	169.56
MC40	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	44.38
MC41	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	125.22
MC42	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	183.35
MC43	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.77
MC44	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	119.79
MC45	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	38.72
MC46	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	21.25
MC47	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	91.18
MC48	Ontario_Street	0.35	4.71	0.26	19.00	1	7.12
MC49	Ontario_Street	0.35	4.71	0.26	19.00	1	7.88
MC5	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	77.95
MC50	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.69
MC51	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	162.06
MC52	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	165.44
MC53	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.06
MC54	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	52.79
MC55	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	90.74
MC56	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	18.56
MC57	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	130.52
MC58	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	20.08
MC59	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	153.02

MC6	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	18.02
MC62	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	209.79
MC64	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	207.29
MC65	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	104.03
MC66	Main_Street	0.35	4.72	0.24	23.30	1	20.97
MC67	Main_Street	0.35	4.72	0.24	23.30	1	7.89
MC68	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	184.29
MC69	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	64.72
MC7	Ontario_Street	0.35	4.71	0.26	19.00	1	5.21
MC70	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	180.37
MC71	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.12
MC72	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	229.05
MC73	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	114.02
MC74	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	55.61
MC75	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	59.63
MC76	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	101.79
MC77	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	63.58
MC78	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	208.23
MC79	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	168.45
MC8	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	155.48
MC80	Ontario_Street	0.35	4.71	0.26	19.00	1	1.50
MC82	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	201.29
MC83	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	159.09
MC84	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	197.98
MC85	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	57.43
MC86	Local_Curb_Simp	0.48	5.68	0.25	20.00	1	27.71
MC87	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	143.90
MC89	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	48.00
MC9	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	53.18
MC90	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	97.52
MC91	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	51.29
MC92	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.90
MC93	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	117.44
MC97	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	98.01
MC98	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	194.85
MC99	Local_NoCurb_Simp	1.10	28.94	0.28	40.00	1	30.33
MJ-C5	TRIANGULAR	0.50	0.60	0.23	2.40	1	0.30
MJ-C6	TRAPEZOIDAL	1.00	4.00	0.55	7.00	1	7.81
MJ-C7	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	1.05
MJ-C8	TRAPEZOIDAL	0.50	1.25	0.30	4.00	1	3.22

****
Transect Summary
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Transect Gill_Rd
Area:

0.0011	0.0044	0.0099	0.0177	0.0276
0.0397	0.0541	0.0706	0.0892	0.1081
0.1270	0.1459	0.1649	0.1838	0.2027
0.2216	0.2405	0.2595	0.2784	0.2973
0.3162	0.3352	0.3545	0.3741	0.3940
0.4143	0.4349	0.4558	0.4771	0.4986
0.5206	0.5428	0.5654	0.5883	0.6116
0.6351	0.6591	0.6833	0.7079	0.7328
0.7580	0.7836	0.8095	0.8357	0.8622
0.8891	0.9164	0.9439	0.9718	1.0000

Hrad:

0.0133	0.0267	0.0400	0.0533	0.0666
0.0800	0.0933	0.1066	0.1256	0.1521
0.1786	0.2050	0.2314	0.2577	0.2840
0.3103	0.3364	0.3626	0.3887	0.4148
0.4408	0.4669	0.4925	0.5175	0.5419
0.5657	0.5890	0.6116	0.6338	0.6554
0.6765	0.6971	0.7173	0.7370	0.7562
0.7750	0.7934	0.8114	0.8290	0.8462
0.8631	0.8796	0.8957	0.9116	0.9271
0.9422	0.9571	0.9717	0.9860	1.0000

Width:

0.0778	0.1556	0.2333	0.3111	0.3889
0.4667	0.5444	0.6222	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6667	0.6667	0.6667	0.6667
0.6667	0.6733	0.6850	0.6967	0.7083
0.7200	0.7317	0.7433	0.7550	0.7667
0.7783	0.7900	0.8017	0.8133	0.8250
0.8367	0.8483	0.8600	0.8717	0.8833
0.8950	0.9067	0.9183	0.9300	0.9417
0.9533	0.9650	0.9767	0.9883	1.0000

Transect Gill_Rd_
Area:

0.0021	0.0082	0.0183	0.0295	0.0407
0.0519	0.0632	0.0748	0.0870	0.0999
0.1133	0.1274	0.1421	0.1575	0.1734
0.1899	0.2070	0.2244	0.2423	0.2606
0.2793	0.2984	0.3179	0.3378	0.3582
0.3789	0.4001	0.4216	0.4436	0.4660
0.4888	0.5120	0.5356	0.5596	0.5841
0.6089	0.6342	0.6599	0.6860	0.7125
0.7394	0.7667	0.7944	0.8225	0.8511
0.8801	0.9094	0.9392	0.9694	1.0000

Hrad:

0.0210	0.0420	0.0686	0.1103	0.1517
0.1929	0.2339	0.2732	0.3096	0.3434
0.3747	0.4039	0.4312	0.4567	0.4806
0.5030	0.5249	0.5461	0.5667	0.5868
0.6062	0.6252	0.6435	0.6614	0.6788
0.6957	0.7121	0.7281	0.7438	0.7590
0.7738	0.7882	0.8023	0.8161	0.8296
0.8427	0.8555	0.8681	0.8804	0.8924
0.9041	0.9157	0.9269	0.9380	0.9488
0.9595	0.9699	0.9801	0.9901	1.0000

Width:

0.1333	0.2667	0.3636	0.3636	0.3636
0.3636	0.3673	0.3873	0.4073	0.4273
0.4473	0.4673	0.4873	0.5073	0.5273
0.5467	0.5600	0.5733	0.5867	0.6000
0.6133	0.6267	0.6400	0.6533	0.6667
0.6800	0.6933	0.7067	0.7200	0.7333
0.7467	0.7600	0.7733	0.7867	0.8000
0.8133	0.8267	0.8400	0.8533	0.8667
0.8800	0.8933	0.9067	0.9200	0.9333
0.9467	0.9600	0.9733	0.9867	1.0000

Transect Local_Curb_Simp
Area:

0.0011	0.0043	0.0097	0.0171	0.0261
0.0367	0.0489	0.0624	0.0759	0.0894
0.1030	0.1165	0.1300	0.1436	0.1576
0.1722	0.1874	0.2031	0.2194	0.2362

```
            0.2536     0.2716     0.2901     0.3092     0.3288
            0.3489     0.3697     0.3910     0.4128     0.4352
            0.4582     0.4817     0.5057     0.5304     0.5555
            0.5813     0.6076     0.6344     0.6618     0.6898
            0.7183     0.7474     0.7770     0.8072     0.8379
            0.8692     0.9011     0.9335     0.9665     1.0000
Hrad:
            0.0193     0.0385     0.0578     0.0802     0.1019
            0.1227     0.1431     0.1756     0.2132     0.2506
            0.2878     0.3248     0.3617     0.3985     0.4340
            0.4674     0.4989     0.5286     0.5567     0.5832
            0.6083     0.6320     0.6545     0.6758     0.6961
            0.7153     0.7336     0.7511     0.7678     0.7837
            0.7989     0.8135     0.8274     0.8408     0.8536
            0.8660     0.8778     0.8893     0.9003     0.9109
            0.9211     0.9310     0.9406     0.9499     0.9589
            0.9676     0.9761     0.9843     0.9922     1.0000
Width:
            0.0640     0.1280     0.1920     0.2420     0.2900
            0.3380     0.3860     0.4000     0.4000     0.4000
            0.4000     0.4000     0.4000     0.4075     0.4240
            0.4405     0.4569     0.4734     0.4898     0.5063
            0.5227     0.5392     0.5557     0.5721     0.5886
            0.6050     0.6215     0.6379     0.6544     0.6709
            0.6873     0.7038     0.7202     0.7367     0.7531
            0.7696     0.7861     0.8025     0.8190     0.8354
            0.8519     0.8683     0.8848     0.9013     0.9177
            0.9342     0.9506     0.9671     0.9835     1.0000

Transect Local_NoCurb_Simp
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
```

Hrad:

0.0074	0.0157	0.0237	0.0347	0.0491
0.0667	0.0923	0.1222	0.1524	0.1825
0.2121	0.2415	0.2703	0.2984	0.3259
0.3527	0.3789	0.4045	0.4295	0.4539
0.4777	0.5010	0.5238	0.5461	0.5679
0.5892	0.6101	0.6306	0.6507	0.6704
0.6896	0.7086	0.7272	0.7454	0.7633
0.7809	0.7982	0.8152	0.8320	0.8484
0.8646	0.8806	0.8963	0.9117	0.9270
0.9420	0.9568	0.9714	0.9858	1.0000

Width:

0.1103	0.1522	0.2015	0.2709	0.3409
0.4116	0.4439	0.4583	0.4726	0.4870
0.5012	0.5140	0.5267	0.5395	0.5523
0.5651	0.5779	0.5907	0.6035	0.6163
0.6291	0.6419	0.6547	0.6674	0.6802
0.6930	0.7058	0.7186	0.7314	0.7442
0.7570	0.7698	0.7826	0.7953	0.8081
0.8209	0.8337	0.8465	0.8593	0.8721
0.8849	0.8977	0.9105	0.9233	0.9360
0.9488	0.9616	0.9744	0.9872	1.0000

Transect Main_Street

Area:

0.0011	0.0042	0.0095	0.0170	0.0265
0.0382	0.0519	0.0678	0.0850	0.1029
0.1208	0.1387	0.1566	0.1745	0.1924
0.2103	0.2282	0.2461	0.2640	0.2819
0.2998	0.3177	0.3356	0.3535	0.3714
0.3893	0.4072	0.4251	0.4430	0.4614
0.4806	0.5006	0.5215	0.5431	0.5656
0.5889	0.6130	0.6379	0.6636	0.6901
0.7174	0.7456	0.7746	0.8043	0.8349
0.8663	0.8985	0.9315	0.9654	1.0000

Hrad:

0.0146	0.0292	0.0437	0.0583	0.0729
0.0875	0.1021	0.1185	0.1396	0.1672
0.1961	0.2248	0.2536	0.2822	0.3108
0.3393	0.3678	0.3961	0.4244	0.4527
0.4809	0.5090	0.5370	0.5650	0.5929

```
            0.6208     0.6486     0.6763     0.7040     0.7313
            0.7568     0.7804     0.8025     0.8229     0.8419
            0.8594     0.8756     0.8906     0.9044     0.9171
            0.9288     0.9396     0.9496     0.9587     0.9671
            0.9748     0.9819     0.9885     0.9945     1.0000
Width:
            0.0605     0.1210     0.1814     0.2419     0.3024
            0.3629     0.4233     0.4761     0.5061     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5107     0.5107
            0.5107     0.5107     0.5107     0.5137     0.5368
            0.5600     0.5831     0.6063     0.6295     0.6526
            0.6758     0.6989     0.7221     0.7453     0.7684
            0.7916     0.8147     0.8379     0.8610     0.8842
            0.9074     0.9305     0.9537     0.9768     1.0000

Transect Ontario_Street
Area:
            0.0008     0.0032     0.0071     0.0127     0.0198
            0.0285     0.0388     0.0507     0.0642     0.0792
            0.0958     0.1141     0.1338     0.1542     0.1746
            0.1949     0.2153     0.2357     0.2560     0.2764
            0.2968     0.3172     0.3379     0.3588     0.3800
            0.4015     0.4233     0.4453     0.4676     0.4902
            0.5131     0.5362     0.5597     0.5834     0.6073
            0.6316     0.6561     0.6809     0.7060     0.7313
            0.7569     0.7829     0.8090     0.8355     0.8622
            0.8892     0.9165     0.9441     0.9719     1.0000
Hrad:
            0.0135     0.0270     0.0405     0.0539     0.0674
            0.0809     0.0944     0.1079     0.1214     0.1349
            0.1484     0.1618     0.1772     0.2040     0.2307
            0.2574     0.2840     0.3105     0.3370     0.3635
            0.3898     0.4163     0.4425     0.4682     0.4934
            0.5182     0.5424     0.5663     0.5897     0.6127
            0.6353     0.6575     0.6794     0.7008     0.7219
            0.7426     0.7630     0.7831     0.8028     0.8222
            0.8413     0.8600     0.8785     0.8967     0.9146
            0.9322     0.9495     0.9666     0.9834     1.0000
Width:
```

```
            0.0561     0.1122     0.1682     0.2243     0.2804
            0.3365     0.3926     0.4487     0.5047     0.5608
            0.6169     0.6730     0.7211     0.7211     0.7211
            0.7211     0.7211     0.7211     0.7211     0.7211
            0.7211     0.7266     0.7364     0.7462     0.7559
            0.7657     0.7754     0.7852     0.7950     0.8047
            0.8145     0.8243     0.8340     0.8438     0.8536
            0.8633     0.8731     0.8828     0.8926     0.9024
            0.9121     0.9219     0.9317     0.9414     0.9512
            0.9609     0.9707     0.9805     0.9902     1.0000

Transect Transect1
Area:
            0.0021     0.0061     0.0114     0.0185     0.0278
            0.0393     0.0525     0.0662     0.0803     0.0949
            0.1099     0.1254     0.1412     0.1574     0.1740
            0.1910     0.2084     0.2261     0.2443     0.2628
            0.2818     0.3011     0.3208     0.3409     0.3614
            0.3823     0.4035     0.4252     0.4472     0.4697
            0.4925     0.5157     0.5393     0.5633     0.5877
            0.6124     0.6376     0.6631     0.6891     0.7154
            0.7421     0.7692     0.7967     0.8246     0.8528
            0.8815     0.9105     0.9400     0.9698     1.0000
Hrad:
            0.0074     0.0157     0.0237     0.0347     0.0491
            0.0667     0.0923     0.1222     0.1524     0.1825
            0.2121     0.2415     0.2703     0.2984     0.3259
            0.3527     0.3789     0.4045     0.4295     0.4539
            0.4777     0.5010     0.5238     0.5461     0.5679
            0.5892     0.6101     0.6306     0.6507     0.6704
            0.6896     0.7086     0.7272     0.7454     0.7633
            0.7809     0.7982     0.8152     0.8320     0.8484
            0.8646     0.8806     0.8963     0.9117     0.9270
            0.9420     0.9568     0.9714     0.9858     1.0000
Width:
            0.1103     0.1522     0.2015     0.2709     0.3409
            0.4116     0.4439     0.4583     0.4726     0.4870
            0.5012     0.5140     0.5267     0.5395     0.5523
            0.5651     0.5779     0.5907     0.6035     0.6163
            0.6291     0.6419     0.6547     0.6674     0.6802
            0.6930     0.7058     0.7186     0.7314     0.7442
```

```
            0.7570     0.7698     0.7826     0.7953     0.8081
            0.8209     0.8337     0.8465     0.8593     0.8721
            0.8849     0.8977     0.9105     0.9233     0.9360
            0.9488     0.9616     0.9744     0.9872     1.0000


***********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
***********************************************************

****************
Analysis Options
****************
Flow Units ............... CMS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... DYNWAVE
Surcharge Method ......... EXTRAN
Starting Date ............ 03/28/2023 00:00:00
Ending Date .............. 03/29/2023 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:10:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 5.00 sec
Variable Time Step ....... YES
Maximum Trials ........... 8
Number of Threads ........ 8
Head Tolerance ........... 0.001500 m


*************************        Volume         Depth
```

Runoff Quantity Continuity	hectare-m	mm
Initial LID Storage	0.024	0.027
Total Precipitation	83.297	93.286
Evaporation Loss	0.000	0.000
Infiltration Loss	46.836	52.452
Surface Runoff	36.150	40.485
Final Storage	0.545	0.610
Continuity Error (%)	-0.252	

Flow Routing Continuity	Volume hectare-m	Volume 10^6 ltr
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	36.139	361.392
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	35.127	351.276
Flooding Loss	0.085	0.846
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.156	1.557
Final Stored Volume	1.133	11.327
Continuity Error (%)	-0.138	

Highest Continuity Errors

Node MJ52 (29.86%)
Node MJ105 (22.80%)
Node MJ118 (15.77%)
Node CBMH4_ON (13.08%)
Node MJ140 (11.32%)

Time-Step Critical Elements

```
  Link C702 (46.98%)
  Link C348 (26.37%)
  Link C211 (17.20%)
  Link C668 (2.51%)


  ********************************
  Highest Flow Instability Indexes
  ********************************
  Link OL5 (7)
  Link C211 (7)
  Link C231 (4)
  Link OL18 (4)
  Link C244 (4)


  *************************
  Routing Time Step Summary
  *************************
  Minimum Time Step           :     0.50 sec
  Average Time Step           :     2.23 sec
  Maximum Time Step           :     5.00 sec
  Percent in Steady State     :    -0.00
  Average Iterations per Step :     2.36
  Percent Not Converging      :     4.55
  Time Step Frequencies       :
      5.000 -  3.155 sec      :    10.38 %
      3.155 -  1.991 sec      :    49.14 %
      1.991 -  1.256 sec      :    16.18 %
      1.256 -  0.792 sec      :    23.75 %
      0.792 -  0.500 sec      :     0.56 %


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------------------------
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                             Total      Total      Total      Total     Imperv       Perv      Total       Total
Peak  Runoff
```

Subcatchment	Precip mm	Runon mm	Evap mm	Infil mm	Runoff mm	Runoff mm	Runoff mm	Runoff 10^6 ltr	Runoff CMS	Coeff
Rural_1	93.29	0.00	0.00	43.37	36.81	12.73	49.53	3.43	1.97	0.531
Rural_10	93.29	0.00	0.00	44.69	36.82	11.36	48.18	16.06	8.87	0.516
Rural_11	93.29	0.00	0.00	41.09	36.74	15.15	51.89	0.24	0.16	0.556
Rural_12	93.29	0.00	0.00	44.69	36.82	11.36	48.18	10.71	5.91	0.516
Rural_13	93.29	0.00	0.00	44.69	36.82	11.36	48.18	10.90	6.02	0.516
Rural_14	93.29	0.00	0.00	44.69	36.82	11.36	48.18	8.19	4.53	0.516
Rural_15	93.29	0.00	0.00	44.69	36.82	11.36	48.18	9.30	5.14	0.516
Rural_16	93.29	0.00	0.00	44.69	36.82	11.36	48.18	12.69	7.01	0.516
Rural_16-2_1	93.29	0.00	0.00	43.37	36.81	12.73	49.53	3.06	1.75	0.531
Rural_16-2_2	93.29	0.00	0.00	43.37	36.81	12.73	49.53	3.67	2.10	0.531
Rural_17	93.29	0.00	0.00	41.09	36.74	15.15	51.89	1.44	0.93	0.556
Rural_17_1	93.29	0.00	0.00	41.09	36.74	15.15	51.89	1.48	0.95	0.556
Rural_17_2	93.29	0.00	0.00	44.69	36.82	11.36	48.18	7.31	4.04	0.516
Rural_17_4	93.29	0.00	0.00	71.75	6.43	15.09	21.52	2.90	0.94	0.231
Rural_18	93.29	0.00	0.00	75.11	0.00	18.31	18.31	1.88	0.55	0.196
Rural_19	93.29	0.00	0.00	77.61	0.00	15.77	15.77	8.97	2.22	0.169
Rural_2	93.29	0.00	0.00	43.37	36.81	12.73	49.53	9.57	5.49	0.531
Rural_20	93.29	0.00	0.00	75.11	0.00	18.31	18.31	4.45	1.31	0.196
Rural_21	93.29	0.00	0.00	77.61	0.00	15.77	15.77	15.31	3.79	0.169

Rural_22	93.29	0.00	0.00	71.75	6.43	15.09	21.52	9.06
2.93	0.231							
Rural_23	93.29	0.00	0.00	64.27	14.71	14.18	28.89	14.95
6.51	0.310							
Rural_24	93.29	0.00	0.00	41.81	35.82	15.37	51.19	3.92
2.52	0.549							
Rural_25	93.29	0.00	0.00	67.59	11.02	14.59	25.62	10.21
4.03	0.275							
Rural_26	93.29	0.00	0.00	77.61	0.00	15.77	15.77	5.08
1.26	0.169							
Rural_27	93.29	0.00	0.00	43.37	36.81	12.73	49.53	4.47
2.56	0.531							
Rural_29	93.29	0.00	0.00	44.69	36.82	11.36	48.18	8.21
4.53	0.516							
Rural_3	93.29	0.00	0.00	43.37	36.81	12.73	49.53	3.61
2.07	0.531							
Rural_4	93.29	0.00	0.00	44.69	36.82	11.36	48.18	13.06
7.21	0.516							
Rural_5	93.29	0.00	0.00	43.37	36.81	12.73	49.53	5.57
3.20	0.531							
Rural_6	93.29	0.00	0.00	43.37	36.81	12.73	49.53	6.84
3.92	0.531							
Rural_7	93.29	0.00	0.00	44.69	36.82	11.36	48.18	8.33
4.60	0.516							
Rural_8	93.29	0.00	0.00	44.69	36.82	11.36	48.18	6.15
3.39	0.516							
Rural_9	93.29	0.00	0.00	44.69	36.82	11.36	48.18	10.89
6.02	0.516							
S1	93.29	0.00	0.00	40.01	4.59	48.98	53.57	1.05
0.52	0.574							
S10	93.29	0.00	0.00	27.01	32.13	33.95	66.07	1.06
0.68	0.708							
S11	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.37
0.24	0.708							
S12	93.29	0.00	0.00	27.01	32.13	33.95	66.07	1.00
0.64	0.708							
S13	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.71
0.46	0.708							
S14	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.23
0.15	0.708							
S15	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.74
0.47	0.708							
S16	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.89
0.57	0.708							

S17_1	93.29	0.00	0.00	28.74	32.20	32.03	64.23	1.62
0.76	0.688							
S17_2	93.29	0.00	0.00	28.74	32.20	32.03	64.23	0.51
0.24	0.688							
S18	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.29
0.19	0.708							
S19	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.31
0.19	0.664							
S2	93.29	0.00	0.00	40.01	4.59	48.98	53.57	0.07
0.03	0.574							
S20_1	93.29	0.00	0.00	27.01	32.13	33.95	66.07	1.08
0.69	0.708							
S20_2	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.62
0.40	0.708							
S21	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.21
0.12	0.664							
S22	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.27
0.17	0.708							
S23	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.05
0.03	0.708							
S24	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.04
0.02	0.708							
S25	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.04
0.02	0.708							
S26	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.03
0.02	0.708							
S27	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.22
0.14	0.708							
S28	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.08
0.05	0.708							
S29	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.17
0.11	0.708							
S3	93.29	0.00	0.00	40.01	4.59	48.98	53.57	0.14
0.07	0.574							
S30	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.04
0.02	0.708							
S31	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.04
0.02	0.708							
S32	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.05
0.03	0.708							
S33	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.24
0.15	0.708							
S4	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.29
0.19	0.708							

S5	93.29	0.00	0.00	27.01	32.13	33.95	66.07	1.05
0.67	0.708							
S6	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.60
0.38	0.708							
S7	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.60
0.38	0.708							
S8	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.53
0.32	0.664							
S9	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.16
0.10	0.708							
UC1	93.29	0.00	0.00	54.79	18.35	20.21	38.56	0.51
0.31	0.413							
UC10	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.20
0.14	0.796							
UC100	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.12
0.08	0.796							
UC11	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.93
0.65	0.796							
UC111	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.04
0.03	0.796							
UC112	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.52
0.36	0.796							
UC113	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.44
0.30	0.796							
UC114	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.13
0.09	0.796							
UC115	93.29	0.00	0.00	33.47	18.35	41.51	59.86	0.15
0.08	0.642							
UC116	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.42
0.30	0.796							
UC117	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.29
0.20	0.796							
UC118	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.16
0.11	0.796							
UC119	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.24
0.17	0.796							
UC12	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.67
0.47	0.796							
UC120	93.29	0.00	0.00	18.43	49.81	23.40	68.59	0.98
0.72	0.735							
UC121	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.18
0.11	0.664							
UC122	93.29	0.00	0.00	18.29	48.84	22.96	61.12	0.18
0.15	0.655							

UC123	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.11
0.08	0.796							
UC124	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.18
0.12	0.796							
UC125	93.29	0.00	0.00	33.56	22.98	36.55	59.53	0.18
0.07	0.638							
UC126	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.06
0.04	0.796							
UC127	93.29	0.00	0.00	18.01	46.75	22.00	44.69	0.18
0.09	0.479							
UC128	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.02
0.01	0.796							
UC129	93.29	0.00	0.00	16.94	38.78	18.32	5.71	0.00
0.00	0.061							
UC13	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.83
0.58	0.796							
UC130	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.10
0.06	0.664							
UC131	93.29	0.00	0.00	17.50	42.97	20.26	17.63	0.01
0.01	0.189							
UC132	93.29	0.00	0.00	17.63	43.95	20.71	23.15	0.03
0.01	0.248							
UC133	93.29	0.00	0.00	33.47	18.35	41.51	59.86	0.15
0.09	0.642							
UC134	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.05
0.04	0.796							
UC135	93.29	0.00	0.00	33.47	18.35	41.51	59.86	0.21
0.12	0.642							
UC136	93.29	0.00	0.00	17.01	39.29	18.56	5.79	0.00
0.00	0.062							
UC137	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.10
0.06	0.664							
UC138	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.12
0.07	0.664							
UC139	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.03
0.02	0.664							
UC14	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.34
0.24	0.796							
UC140	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.08
0.05	0.664							
UC141	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.17
0.10	0.664							
UC142	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.08
0.05	0.664							

UC143	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.36
0.22 0.664								
UC144	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.21
0.13 0.664								
UC145	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.24
0.14 0.664								
UC146	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.28
0.17 0.664								
UC147	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.10
0.06 0.664								
UC148	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.10
0.06 0.664								
UC149	93.29	0.00	0.00	31.30	22.94	39.00	61.94	0.18
0.11 0.664								
UC15	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.16
0.11 0.796								
UC150	93.29	0.00	0.00	54.79	18.35	20.21	38.56	0.24
0.15 0.413								
UC151	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.17
0.12 0.796								
UC152	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.11
0.08 0.796								
UC153	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.36
0.25 0.796								
UC154	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.48
0.34 0.796								
UC155	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.14
0.10 0.796								
UC156	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.40
0.28 0.796								
UC157	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.34
0.24 0.796								
UC159	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.09
0.06 0.796								
UC16	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.37
0.26 0.796								
UC162	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.27
0.19 0.796								
UC163	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.06
0.04 0.796								
UC164	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.26
0.18 0.796								
UC167	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.45
0.32 0.796								

UC168	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.12
0.08	0.796							
UC17	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.61
0.42	0.796							
UC173	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.51
1.05	0.796							
UC174	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.15
0.80	0.796							
UC175	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.08
0.06	0.796							
UC176	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.17
0.12	0.796							
UC177	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.61
0.42	0.796							
UC178	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.59
0.41	0.796							
UC179	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.32
0.22	0.796							
UC18	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.51
0.35	0.796							
UC180	93.29	0.00	0.00	18.52	50.52	23.73	74.25	2.38
1.66	0.796							
UC181	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.57
0.40	0.796							
UC182	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.82
0.57	0.796							
UC183	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.73
1.21	0.796							
UC184	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.08
0.06	0.796							
UC185	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.08
0.05	0.796							
UC186	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.04
0.02	0.796							
UC187	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.10
0.07	0.796							
UC188	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.93
0.65	0.796							
UC189	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.32
0.92	0.796							
UC19	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.55
0.39	0.796							
UC190	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.28
0.20	0.796							

UC191	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.07
0.05	0.796							
UC192	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.76
1.23	0.796							
UC193	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.47
0.33	0.796							
UC194_1	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.44
0.31	0.796							
UC194_3	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.49
0.34	0.796							
UC194_4	93.29	0.00	0.00	22.75	41.32	28.86	70.18	0.32
0.22	0.752							
UC195	93.29	0.00	0.00	22.75	41.32	28.86	70.18	0.80
0.54	0.752							
UC196	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.45
0.31	0.796							
UC197	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.57
0.40	0.796							
UC198_1	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.31
0.22	0.796							
UC198_2	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.26
0.18	0.796							
UC199	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.17
0.12	0.796							
UC2	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.51
0.36	0.796							
UC20	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.68
0.47	0.796							
UC200	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.30
0.21	0.796							
UC201	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.78
0.54	0.796							
UC202	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.65
0.45	0.796							
UC203	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.49
0.34	0.796							
UC204	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.59
0.41	0.796							
UC205	93.29	0.00	0.00	40.01	4.59	48.98	53.57	0.21
0.10	0.574							
UC206	93.29	0.00	0.00	40.01	4.59	48.98	53.57	1.21
0.59	0.574							
UC207	93.29	0.00	0.00	40.01	4.59	48.98	53.57	0.52
0.25	0.574							

UC208	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.43
0.30	0.796							
UC209	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.28
0.20	0.796							
UC21	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.31
0.22	0.796							
UC210	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.15
0.80	0.796							
UC211	93.29	0.00	0.00	18.52	50.52	23.73	74.25	2.07
1.45	0.796							
UC212	93.29	0.00	0.00	18.52	50.52	23.73	74.25	2.09
1.46	0.796							
UC213	93.29	0.00	0.00	18.52	50.52	23.73	74.25	3.31
2.31	0.796							
UC214	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.45
0.32	0.796							
UC215	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.94
0.66	0.796							
UC216	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.48
1.03	0.796							
UC217	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.45
1.01	0.796							
UC218	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.89
0.62	0.796							
UC219	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.10
0.07	0.796							
UC22	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.29
0.20	0.796							
UC220	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.02
0.01	0.796							
UC221	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.10
0.07	0.796							
UC222	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.23
0.16	0.796							
UC223	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.19
0.14	0.796							
UC224	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.28
0.19	0.796							
UC225	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.54
0.38	0.796							
UC229	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.02
0.01	0.796							
UC23	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.25
0.17	0.796							

UC24	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.26
0.18	0.796							
UC25	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.23
0.16	0.796							
UC26	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.13
0.09	0.796							
UC27	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.11
0.08	0.796							
UC28	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.16
0.11	0.796							
UC29	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.19
0.13	0.796							
UC3	93.29	0.00	0.00	18.27	48.67	22.88	59.80	0.10
0.08	0.641							
UC30	93.29	0.00	0.00	33.47	18.35	41.51	59.86	0.03
0.02	0.642							
UC300	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.13
0.79	0.796							
UC301	93.29	0.00	0.00	18.52	50.52	23.73	74.25	3.24
2.26	0.796							
UC302	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.35
0.25	0.796							
UC303	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.41
0.29	0.796							
UC304	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.59
1.11	0.796							
UC305	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.59
1.11	0.796							
UC306	93.29	0.00	0.00	40.01	4.59	48.98	53.57	0.37
0.18	0.574							
UC307	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.37
0.26	0.796							
UC308	93.29	0.00	0.00	19.53	50.62	22.56	73.18	2.00
1.10	0.785							
UC309	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.34
0.24	0.796							
UC31	93.29	0.00	0.00	54.79	18.35	20.21	38.56	0.13
0.08	0.413							
UC310	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.53
0.37	0.796							
UC311	93.29	0.00	0.00	18.52	50.52	23.73	74.25	3.33
2.33	0.796							
UC312	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.23
0.86	0.796							

UC313_2	93.29	20.61	0.00	43.37	5.62	70.86	70.86	1.88
0.83	0.622							
UC313_3	93.29	0.00	0.00	40.01	4.59	48.98	53.57	1.01
0.50	0.574							
UC313_4	93.29	0.00	0.00	27.01	32.13	33.95	66.07	0.55
0.35	0.708							
UC314	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.17
0.12	0.796							
UC315	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.70
0.49	0.796							
UC316	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.48
0.33	0.796							
UC317	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.44
0.31	0.796							
UC318	93.29	0.00	0.00	54.79	18.35	20.21	38.56	0.24
0.15	0.413							
UC319	93.29	0.00	0.00	18.52	50.52	23.73	74.25	1.74
1.22	0.796							
UC32	93.29	0.00	0.00	54.79	18.35	20.21	38.56	0.04
0.03	0.413							
UC33	93.29	0.00	0.00	54.79	18.35	20.21	38.56	0.31
0.19	0.413							
UC34	93.29	0.00	0.00	33.47	18.35	41.51	59.86	0.37
0.21	0.642							
UC35	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.04
0.03	0.796							
UC36	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.04
0.03	0.796							
UC37	93.29	0.00	0.00	33.47	18.35	41.51	59.86	0.06
0.03	0.642							
UC38	93.29	0.00	0.00	33.47	18.35	41.51	59.86	0.25
0.14	0.642							
UC39	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.11
0.07	0.796							
UC4	93.29	0.00	0.00	18.25	48.49	22.80	58.35	0.23
0.23	0.625							
UC40	93.29	0.00	0.00	17.91	46.04	21.67	39.45	0.04
0.03	0.423							
UC41	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.04
0.02	0.796							
UC42	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.07
0.05	0.796							
UC43	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.05
0.04	0.796							

UC44	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.05
0.03	0.796							
UC45	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.13
0.09	0.796							
UC46	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.09
0.07	0.796							
UC47	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.11
0.08	0.796							
UC48	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.14
0.10	0.796							
UC49	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.31
0.22	0.796							
UC5	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.38
0.26	0.796							
UC50	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.21
0.15	0.796							
UC51	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.47
0.33	0.796							
UC52	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.42
0.29	0.796							
UC53	93.29	0.00	0.00	27.36	49.24	63.49	55.47	0.44
0.32	0.595							
UC54	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.57
0.40	0.796							
UC55	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.52
0.36	0.796							
UC56	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.30
0.21	0.796							
UC57	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.26
0.18	0.796							
UC58	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.22
0.15	0.796							
UC59	93.29	0.00	0.00	17.92	46.11	21.70	39.83	0.09
0.05	0.427							
UC6	93.29	0.00	0.00	18.20	48.17	22.65	55.92	0.12
0.12	0.599							
UC60	93.29	0.00	0.00	18.00	46.65	21.95	44.11	0.07
0.06	0.473							
UC61	93.29	0.00	0.00	33.47	18.35	41.51	59.86	0.22
0.12	0.642							
UC62	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.51
0.36	0.796							
UC63	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.06
0.04	0.796							

UC64	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.03	0.02	0.796
UC65	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.11	0.07	0.796
UC66	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.05	0.04	0.796
UC67	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.00	0.00	0.796
UC68	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.17	0.12	0.796
UC69	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.03	0.02	0.796
UC7	93.29	0.00	0.00	18.25	48.49	22.80	58.38	0.17	0.16	0.626
UC70	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.04	0.03	0.796
UC71	93.29	0.00	0.00	40.46	4.59	48.47	53.06	0.43	0.18	0.569
UC72	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.04	0.03	0.796
UC73	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.27	0.19	0.796
UC74	93.29	0.00	0.00	40.49	4.59	48.44	53.03	8.45	3.56	0.568
UC75	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.16	0.11	0.796
UC76	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.24	0.16	0.796
UC77	93.29	0.00	0.00	18.26	48.62	22.86	59.43	0.16	0.14	0.637
UC78	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.29	0.20	0.796
UC79	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.04	0.03	0.796
UC8	93.29	0.00	0.00	18.06	47.11	22.16	47.51	0.21	0.11	0.509
UC80	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.02	0.01	0.796
UC81	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.18	0.13	0.796
UC82	93.29	0.00	0.00	18.31	48.96	23.01	61.98	0.28	0.23	0.664
UC83	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.14	0.10	0.796

UC84	93.29	0.00	0.00	54.79	18.35	20.21	38.56	0.44	0.27	0.413
UC85	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.31	0.22	0.796
UC86	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.24	0.17	0.796
UC87	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.11	0.08	0.796
UC88	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.12	0.08	0.796
UC89	93.29	0.00	0.00	18.14	47.70	22.43	52.16	0.19	0.18	0.559
UC9	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.35	0.25	0.796
UC90	93.29	0.00	0.00	17.94	46.24	21.76	40.94	0.06	0.04	0.439
UC91	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.03	0.02	0.796
UC92	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.06	0.04	0.796
UC93	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.15	0.11	0.796
UC94	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.12	0.09	0.796
UC95	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.07	0.05	0.796
UC96	93.29	0.00	0.00	18.03	46.93	22.08	46.22	0.10	0.08	0.496
UC97	93.29	0.00	0.00	18.22	48.33	22.72	57.18	0.08	0.07	0.613
UC98	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.16	0.11	0.796
UC99	93.29	0.00	0.00	18.52	50.52	23.73	74.25	0.25	0.17	0.796

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LID Performance Summary
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	Total	Evap	Infil	Surface	Drain	Initial	Final	Continuity

Subcatchment	LID Control	Inflow mm	Loss mm	Loss mm	Outflow mm	Outflow mm	Storage mm	Storage mm	Error %
UC120	Bioretention_Facility	4791.56	0.00	12.00	4368.82	0.00	76.86	487.63	-0.00
UC122	Bioretention_Facility	2043.27	0.00	12.00	1627.79	0.00	76.86	480.35	-0.00
UC127	Bioretention_Facility	924.32	0.00	12.00	507.94	0.00	76.86	481.25	-0.00
UC129	Bioretention_Facility	314.77	0.00	12.00	0.00	0.00	76.86	379.55	0.02
UC131	Bioretention_Facility	474.64	0.00	12.00	75.78	0.00	76.86	463.60	0.02
UC132	Bioretention_Facility	541.83	0.00	12.00	128.56	0.00	76.86	478.13	-0.00
UC136	Bioretention_Facility	327.95	0.00	12.00	0.00	0.00	76.86	392.74	0.02
UC3	Bioretention_Facility	1851.73	0.00	12.00	1437.69	0.00	76.86	478.91	-0.00
UC4	Bioretention_Facility	1694.97	0.00	12.00	1278.63	0.00	76.86	481.21	-0.00
UC40	Bioretention_Facility	782.72	0.00	12.00	369.68	0.00	76.86	477.90	-0.00
UC53	Bioretention_Facility	2359.35	0.00	12.00	1947.94	0.00	76.86	476.28	-0.00
UC59	Bioretention_Facility	794.29	0.00	12.00	379.55	0.00	76.86	479.61	-0.00
UC6	Bioretention_Facility	1467.93	0.00	12.00	1053.32	0.00	76.86	479.48	-0.00
UC60	Bioretention_Facility	901.62	0.00	12.00	487.70	0.00	76.86	478.80	-0.00
UC7	Bioretention_Facility	1694.35	0.00	12.00	1278.90	0.00	76.86	480.33	-0.00
UC77	Bioretention_Facility	1811.95	0.00	12.00	1396.81	0.00	76.86	480.02	-0.00
UC8	Bioretention_Facility	1019.65	0.00	12.00	602.92	0.00	76.86	481.61	-0.00
UC82	Bioretention_Facility	2190.60	0.00	12.00	1773.82	0.00	76.86	481.66	-0.00
UC89	Bioretention_Facility	1226.33	0.00	12.00	810.34	0.00	76.86	480.86	-0.00

UC90	Bioretention_Facility	817.92	0.00	12.00	404.18	0.00	76.86	478.61
-0.00								
UC96	Bioretention_Facility	969.36	0.00	12.00	554.65	0.00	76.86	479.57
-0.00								
UC97	Bioretention_Facility	1570.40	0.00	12.00	1156.67	0.00	76.86	478.60
-0.00								

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Node Depth Summary
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Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
4390544795870	JUNCTION	0.01	0.08	183.64	0 09:13	0.07
4390824795850	JUNCTION	0.17	0.28	183.62	0 09:36	0.28
4391014795950	JUNCTION	0.02	0.13	183.87	0 09:09	0.13
4391194795830	JUNCTION	0.02	0.07	183.62	0 09:35	0.07
4391304795930	JUNCTION	0.01	0.07	184.10	0 09:06	0.06
4391504795920	JUNCTION	0.01	0.04	184.19	0 09:06	0.04
4391544795810	JUNCTION	0.02	0.07	183.02	0 09:10	0.07
4391664795910	JUNCTION	0.02	0.11	184.17	0 09:08	0.11
4391884795900	JUNCTION	0.01	0.06	184.19	0 09:06	0.05
4392024795890	JUNCTION	0.01	0.09	184.18	0 09:06	0.08
4393014795360	JUNCTION	0.02	0.08	186.02	0 09:09	0.08
4393464795440	JUNCTION	0.01	0.09	186.20	0 09:05	0.08
4394414795760	JUNCTION	0.01	0.05	185.70	0 09:06	0.05
4394754795460	JUNCTION	0.03	0.09	186.32	0 09:05	0.08
4394784795740	JUNCTION	0.02	0.18	184.88	0 09:18	0.17
4395014795520	JUNCTION	0.06	0.19	185.86	0 09:08	0.19
4395024795240	JUNCTION	0.02	0.08	186.29	0 09:08	0.07
4395174795720	JUNCTION	0.01	0.08	186.41	0 09:14	0.08
4395694795410	JUNCTION	0.01	0.08	187.11	0 09:05	0.07
4396134795480	JUNCTION	0.03	0.17	186.44	0 09:07	0.16
4396584795550	JUNCTION	0.01	0.08	187.11	0 09:05	0.08
4396744795620	JUNCTION	0.03	0.18	187.29	0 09:11	0.18
CB15	JUNCTION	0.06	0.96	182.66	0 09:05	0.41
CB16	JUNCTION	0.00	0.00	181.95	0 00:00	0.00
CB17	JUNCTION	0.05	1.12	181.39	0 09:08	1.03

CB18	JUNCTION	0.00	0.00	181.40	0	00:00	0.00
CB19	JUNCTION	0.04	1.50	183.10	0	09:03	0.48
CB20	JUNCTION	0.07	1.70	183.04	0	09:04	0.66
CB21	JUNCTION	0.00	0.43	180.94	0	09:08	0.36
CB22	JUNCTION	0.00	0.00	181.20	0	00:00	0.00
CB23	JUNCTION	0.02	0.13	181.58	0	09:05	0.09
CB26	JUNCTION	0.03	0.35	179.69	0	09:15	0.35
CB27	JUNCTION	0.00	0.00	182.57	0	00:00	0.00
CB29	JUNCTION	0.00	0.00	185.26	0	00:00	0.00
CB30	JUNCTION	0.00	0.06	185.21	0	09:14	0.00
CB30_1	JUNCTION	0.07	1.57	185.50	0	09:14	0.89
CB31	JUNCTION	0.10	1.13	184.62	0	09:14	1.13
CB32	JUNCTION	0.13	1.22	184.64	0	09:14	1.22
CB33	JUNCTION	0.19	1.39	184.73	0	09:14	1.39
CB34	JUNCTION	0.00	0.00	184.40	0	00:00	0.00
CB35	JUNCTION	0.00	0.00	184.20	0	00:00	0.00
CB41	JUNCTION	0.08	0.85	182.62	0	09:12	0.85
CB42	JUNCTION	0.16	1.50	182.65	0	09:12	1.50
CB-58	JUNCTION	0.18	1.78	182.21	0	09:06	1.16
CBMH_1	JUNCTION	0.04	0.18	181.71	0	09:14	0.16
CBMH_40	JUNCTION	0.02	0.17	182.91	0	10:57	0.17
CBMH_41	JUNCTION	0.08	0.40	182.91	0	10:58	0.40
CBMH_42	JUNCTION	0.01	0.10	182.91	0	10:59	0.10
CBMH_44	JUNCTION	0.11	0.49	182.91	0	10:58	0.49
CBMH_46	JUNCTION	0.28	0.91	182.91	0	10:58	0.91
CBMH_62	JUNCTION	0.16	0.87	183.50	0	09:11	0.76
CBMH_9	JUNCTION	0.00	0.00	183.50	0	00:00	0.00
CBMH1	JUNCTION	0.01	1.45	184.00	0	09:05	0.14
CBMH1_ON	JUNCTION	0.00	0.00	184.86	0	00:00	0.00
CBMH10_Main	JUNCTION	0.03	0.13	179.54	0	09:10	0.13
CBMH2	JUNCTION	0.02	0.05	180.78	0	09:05	0.05
CBMH2_ON	JUNCTION	0.00	0.00	184.54	0	00:00	0.00
CBMH3_ON	JUNCTION	0.00	0.08	184.33	0	09:08	0.08
CBMH4_ON	JUNCTION	0.13	0.34	184.33	0	09:09	0.34
CBMH5	JUNCTION	0.04	0.19	179.99	0	09:06	0.18
CBMH5_ON	JUNCTION	0.07	0.28	184.33	0	09:08	0.28
CBMH6_ON	JUNCTION	0.07	0.26	184.15	0	09:10	0.26
CBMH7	JUNCTION	0.00	0.00	182.38	0	00:00	0.00
CBMH7_ON	JUNCTION	0.05	0.20	183.91	0	09:11	0.20
CBMH8_ON	JUNCTION	0.06	0.29	183.56	0	09:10	0.29
CBMH9_ON	JUNCTION	0.02	0.09	182.83	0	09:10	0.09

DCB72	JUNCTION	0.00	0.00	180.43	0	00:00	0.00
DICBMH42	JUNCTION	0.75	1.07	177.72	0	09:41	1.07
J1	JUNCTION	0.09	0.45	183.60	0	09:09	0.45
J10	JUNCTION	0.03	0.26	182.79	0	09:20	0.25
J101	JUNCTION	0.14	1.19	181.95	0	09:05	0.93
J102	JUNCTION	0.55	0.78	180.78	0	09:13	0.78
J105	JUNCTION	0.05	1.52	185.50	0	09:09	0.53
J106	JUNCTION	0.10	1.13	184.75	0	09:06	0.88
J110	JUNCTION	0.13	1.39	182.22	0	09:05	0.88
J113	JUNCTION	0.10	1.25	182.17	0	09:05	0.78
J115	JUNCTION	0.00	0.00	183.07	0	00:00	0.00
J116	JUNCTION	0.00	0.00	176.45	0	00:00	0.00
J12	JUNCTION	0.02	0.09	183.41	0	09:07	0.08
J125	JUNCTION	0.07	0.25	179.40	0	09:12	0.25
J127	JUNCTION	0.04	0.27	180.98	0	09:05	0.24
J128	JUNCTION	0.06	0.45	181.37	0	09:10	0.45
J15	JUNCTION	0.02	0.11	180.82	0	09:08	0.11
J2	JUNCTION	0.02	0.21	183.08	0	09:10	0.21
J20	JUNCTION	0.02	0.11	179.62	0	09:09	0.11
J24	JUNCTION	0.11	0.39	178.15	0	09:09	0.38
J3	JUNCTION	0.04	0.32	181.90	0	09:15	0.31
J30	JUNCTION	0.00	0.00	186.43	0	00:00	0.00
J31	JUNCTION	0.00	0.00	185.91	0	00:00	0.00
J34	JUNCTION	0.00	0.00	181.75	0	00:00	0.00
J35	JUNCTION	0.00	0.00	181.98	0	00:00	0.00
J36	JUNCTION	0.00	0.00	179.96	0	00:00	0.00
J38	JUNCTION	0.02	0.15	180.15	0	09:05	0.11
J4	JUNCTION	0.00	0.00	185.20	0	00:00	0.00
J42	JUNCTION	0.00	0.00	179.01	0	00:00	0.00
J43	JUNCTION	0.00	0.00	178.80	0	00:00	0.00
J47	JUNCTION	0.00	0.00	179.99	0	00:00	0.00
J48	JUNCTION	0.00	0.00	180.60	0	00:00	0.00
J49	JUNCTION	0.09	1.16	182.08	0	09:21	0.91
J5	JUNCTION	0.02	0.10	184.95	0	09:07	0.10
J50	JUNCTION	0.00	0.00	178.47	0	00:00	0.00
J52	JUNCTION	0.15	0.44	179.12	0	09:05	0.44
J55	JUNCTION	0.14	0.41	178.91	0	09:06	0.41
J6	JUNCTION	0.02	0.14	181.37	0	09:16	0.14
J62	JUNCTION	0.13	0.40	178.77	0	09:06	0.40
J66	JUNCTION	0.00	0.00	176.80	0	00:00	0.00
J67	JUNCTION	0.00	0.00	176.71	0	00:00	0.00

J7	JUNCTION	0.05	0.27	182.66	0	09:13	0.26
J70	JUNCTION	0.06	0.22	176.14	0	09:09	0.22
J78	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J8	JUNCTION	0.02	0.21	184.60	0	09:14	0.19
J83	JUNCTION	0.00	0.00	0.00	0	00:00	0.00
J9	JUNCTION	0.02	0.14	182.86	0	09:09	0.13
J91	JUNCTION	0.10	0.40	178.77	0	09:12	0.36
J93	JUNCTION	0.04	0.74	182.90	0	09:09	0.57
J95	JUNCTION	0.03	0.64	183.02	0	09:09	0.43
J98	JUNCTION	0.07	0.86	182.04	0	09:07	0.86
MH_1	JUNCTION	0.03	0.12	181.37	0	09:15	0.11
MH_10	JUNCTION	0.02	0.10	183.36	0	09:14	0.09
MH_11	JUNCTION	0.02	0.11	183.24	0	09:15	0.10
MH_12	JUNCTION	0.03	0.12	185.36	0	09:06	0.10
MH_13	JUNCTION	0.03	0.12	184.22	0	09:06	0.11
MH_14	JUNCTION	0.03	0.11	183.86	0	09:08	0.10
MH_15	JUNCTION	0.06	0.25	182.98	0	09:09	0.25
MH_16	JUNCTION	0.10	0.33	182.92	0	10:57	0.33
MH_17	JUNCTION	0.24	0.77	182.92	0	10:56	0.77
MH_18	JUNCTION	0.03	0.13	184.65	0	09:06	0.10
MH_19	JUNCTION	0.03	0.11	185.28	0	09:05	0.09
MH_2	JUNCTION	0.03	0.14	180.74	0	09:15	0.13
MH_20	JUNCTION	0.03	0.11	185.03	0	09:06	0.09
MH_21	JUNCTION	0.03	0.11	184.64	0	09:06	0.09
MH_22	JUNCTION	0.03	0.14	184.13	0	09:07	0.12
MH_23	JUNCTION	0.51	0.64	183.91	0	09:07	0.62
MH_24	JUNCTION	0.00	0.00	184.50	0	00:00	0.00
MH_25	JUNCTION	0.00	0.00	184.00	0	00:00	0.00
MH_26	JUNCTION	0.02	0.09	183.36	0	09:08	0.08
MH_27	JUNCTION	0.03	0.12	183.19	0	09:08	0.11
MH_29	JUNCTION	0.00	0.00	183.90	0	00:00	0.00
MH_30	JUNCTION	0.00	0.00	183.08	0	00:00	0.00
MH_34	JUNCTION	0.04	0.17	183.30	0	09:06	0.14
MH_35	JUNCTION	0.05	0.19	182.92	0	10:56	0.19
MH_36	JUNCTION	0.08	0.29	182.92	0	10:56	0.29
MH_37	JUNCTION	0.21	0.67	182.92	0	10:56	0.67
MH_38	JUNCTION	0.30	0.90	182.92	0	10:56	0.90
MH_39	JUNCTION	0.53	1.24	182.92	0	10:57	1.24
MH_43	JUNCTION	0.07	0.35	182.91	0	10:59	0.35
MH_45	JUNCTION	0.22	0.78	182.91	0	10:58	0.78
MH_47	JUNCTION	0.62	1.36	182.91	0	10:58	1.36

MH_56	JUNCTION	0.08	0.22	183.39	0	09:18	0.22
MH_57	JUNCTION	0.12	0.71	183.55	0	09:12	0.49
MH_58	JUNCTION	0.15	0.85	183.54	0	09:11	0.64
MH_59	JUNCTION	0.16	1.06	184.50	0	09:06	1.06
MH_61	JUNCTION	0.12	0.96	184.13	0	09:10	0.72
MH_63	JUNCTION	0.23	0.96	183.41	0	09:12	0.85
MH_64	JUNCTION	0.30	1.67	183.87	0	09:10	0.92
MH_65	JUNCTION	0.42	1.08	182.95	0	10:32	1.07
MH_66	JUNCTION	0.45	1.11	182.92	0	10:34	1.11
MH_67	JUNCTION	0.78	1.58	182.90	0	11:03	1.58
MH_68	JUNCTION	0.92	1.78	182.90	0	11:04	1.78
MH_69	JUNCTION	0.19	0.35	180.61	0	11:06	0.35
MH_70	JUNCTION	0.19	0.35	180.01	0	11:06	0.35
MH1	JUNCTION	0.04	1.74	182.85	0	09:05	1.32
MH1_Main	JUNCTION	0.10	1.66	185.51	0	09:14	0.97
MH10	JUNCTION	0.31	1.83	181.33	0	09:08	1.78
MH10__S	JUNCTION	0.01	0.25	183.40	0	09:13	0.25
MH10_Main	JUNCTION	0.14	0.46	177.24	0	09:14	0.42
MH11	JUNCTION	0.22	1.64	180.94	0	09:08	1.56
MH11__S	JUNCTION	0.13	0.96	183.73	0	09:06	0.61
MH11_Main	JUNCTION	0.09	0.26	176.60	0	09:14	0.24
MH12	JUNCTION	0.03	0.62	181.82	0	09:06	0.21
MH13	JUNCTION	0.29	1.37	180.17	0	09:08	1.34
MH13_Main	JUNCTION	0.07	1.68	182.94	0	09:13	0.53
MH13_Main_	JUNCTION	0.14	1.43	182.18	0	09:12	1.09
MH14	JUNCTION	0.15	1.36	179.71	0	09:08	1.34
MH14_Main	JUNCTION	0.18	1.96	182.51	0	09:12	1.29
MH15	JUNCTION	0.14	1.19	179.39	0	09:08	1.17
MH15_Main	JUNCTION	0.19	1.58	182.07	0	09:21	1.35
MH16	JUNCTION	0.13	0.88	178.88	0	09:08	0.88
MH2	JUNCTION	0.10	1.73	182.73	0	09:05	1.43
MH2_Main	JUNCTION	0.19	1.52	184.87	0	09:23	1.47
MH2_S	JUNCTION	0.03	0.34	184.29	0	09:08	0.33
MH21	JUNCTION	0.13	1.66	182.78	0	09:06	1.52
MH21_S	JUNCTION	0.02	0.13	182.93	0	09:09	0.13
MH22	JUNCTION	0.26	1.94	182.63	0	09:06	1.82
MH23	JUNCTION	0.17	1.78	182.54	0	09:06	1.63
MH24	JUNCTION	0.19	1.74	182.33	0	09:06	1.39
MH25	JUNCTION	0.14	0.68	180.78	0	09:11	0.67
MH25-1	JUNCTION	0.16	0.85	181.11	0	09:14	0.84
MH26	JUNCTION	0.07	0.35	180.11	0	09:15	0.35

MH3	JUNCTION	0.10	2.09	183.01	0	09:05	1.39
MH3_Main	JUNCTION	0.18	1.37	184.19	0	09:24	1.35
MH3_S	JUNCTION	0.01	0.18	184.29	0	09:07	0.17
MH30	JUNCTION	0.08	1.34	180.77	0	09:10	0.50
MH31	JUNCTION	0.08	1.33	180.66	0	09:10	0.82
MH32	JUNCTION	0.09	1.35	180.55	0	09:10	0.79
MH33	JUNCTION	0.13	1.35	180.47	0	09:10	0.80
MH34	JUNCTION	0.05	0.30	179.36	0	09:12	0.26
MH34_S	JUNCTION	0.02	0.11	181.59	0	09:08	0.11
MH35	JUNCTION	0.05	0.38	179.33	0	09:12	0.30
MH36	JUNCTION	0.05	0.48	179.31	0	09:13	0.38
MH36_S	JUNCTION	0.02	0.11	182.08	0	09:10	0.11
MH37	JUNCTION	0.00	0.00	179.80	0	00:00	0.00
MH37_S	JUNCTION	0.00	0.00	182.34	0	00:00	0.00
MH38	JUNCTION	0.00	0.14	179.69	0	09:13	0.01
MH39	JUNCTION	0.01	0.28	179.69	0	09:14	0.08
MH4	JUNCTION	0.10	1.42	182.12	0	09:09	1.41
MH4_Main	JUNCTION	0.26	2.60	184.26	0	09:13	2.06
MH40	JUNCTION	0.10	0.93	179.76	0	09:10	0.68
MH41	JUNCTION	0.08	0.62	179.30	0	09:10	0.51
MH41_S	JUNCTION	0.11	0.24	182.10	0	09:09	0.24
MH42	JUNCTION	0.11	0.26	177.70	0	10:05	0.26
MH43	JUNCTION	0.11	0.25	177.54	0	10:05	0.25
MH5	JUNCTION	0.06	2.55	185.00	0	09:06	0.38
MH5_Main	JUNCTION	0.30	2.08	182.83	0	09:11	1.96
MH6	JUNCTION	0.05	1.44	183.76	0	09:05	0.37
MH6_Main	JUNCTION	0.38	1.73	181.97	0	09:21	1.59
MH7	JUNCTION	0.05	1.27	183.37	0	09:05	0.34
MH7_Main	JUNCTION	0.08	0.26	180.51	0	09:18	0.25
MH8	JUNCTION	0.11	1.46	181.97	0	09:09	1.44
MH8_Main	JUNCTION	0.44	1.91	179.47	0	09:13	1.62
MH8_S	JUNCTION	0.01	0.10	184.06	0	09:09	0.10
MH9	JUNCTION	0.11	1.48	181.75	0	09:08	1.43
MH9__S	JUNCTION	0.03	0.58	183.81	0	09:09	0.58
MH9_Main	JUNCTION	0.21	1.93	179.54	0	09:15	1.24
MJ_	JUNCTION	0.00	0.00	182.63	0	00:00	0.00
MJ1	JUNCTION	0.05	0.22	177.69	0	09:16	0.22
MJ10	JUNCTION	0.01	0.04	183.55	0	09:07	0.04
MJ100	JUNCTION	0.03	0.16	182.42	0	09:06	0.15
MJ101	JUNCTION	0.02	0.11	183.80	0	09:06	0.10
MJ102	JUNCTION	0.35	0.53	183.40	1	00:00	0.53

MJ103	JUNCTION	0.04	0.12	183.12	0	09:26	0.11
MJ104	JUNCTION	0.01	0.08	184.28	0	09:10	0.08
MJ105	JUNCTION	0.35	0.55	185.02	0	09:22	0.54
MJ106	JUNCTION	0.00	0.00	183.57	0	00:00	0.00
MJ107	JUNCTION	0.02	0.10	184.27	0	09:14	0.10
MJ108	JUNCTION	0.01	0.07	185.74	0	09:06	0.06
MJ109	JUNCTION	0.00	0.00	184.90	0	00:00	0.00
MJ11	JUNCTION	0.00	0.00	178.72	0	00:00	0.00
MJ110	JUNCTION	0.10	0.21	182.24	0	09:08	0.21
MJ111	JUNCTION	0.00	0.00	182.56	0	00:00	0.00
MJ112	JUNCTION	0.02	0.13	180.76	0	09:14	0.13
MJ113	JUNCTION	0.01	0.04	184.28	0	09:12	0.04
MJ114	JUNCTION	0.01	0.03	184.57	0	09:09	0.03
MJ115	JUNCTION	0.01	0.06	185.49	0	09:06	0.06
MJ116	JUNCTION	0.04	0.26	182.24	0	09:32	0.25
MJ117	JUNCTION	0.00	0.02	185.55	0	09:08	0.02
MJ118	JUNCTION	0.17	0.31	185.02	0	09:20	0.31
MJ119	JUNCTION	0.02	0.15	180.36	0	09:09	0.15
MJ12	JUNCTION	0.03	0.15	179.16	0	09:06	0.14
MJ120	JUNCTION	0.25	0.35	184.28	0	09:42	0.35
MJ121	JUNCTION	0.02	0.10	186.76	0	09:05	0.09
MJ122	JUNCTION	0.02	0.12	184.37	0	09:07	0.11
MJ123	JUNCTION	0.00	0.00	187.14	0	00:00	0.00
MJ124	JUNCTION	0.04	0.19	180.56	0	09:07	0.18
MJ125	JUNCTION	0.01	0.10	186.21	0	09:06	0.09
MJ126	JUNCTION	0.00	0.00	185.15	0	00:00	0.00
MJ127	JUNCTION	0.01	0.07	185.94	0	09:06	0.07
MJ128	JUNCTION	0.02	0.13	182.22	0	09:07	0.13
MJ129	JUNCTION	0.09	0.46	182.23	0	09:35	0.45
MJ13	JUNCTION	0.02	0.11	178.71	0	09:06	0.10
MJ130	JUNCTION	0.03	0.15	186.22	0	09:06	0.14
MJ131	JUNCTION	0.01	0.05	184.30	0	09:05	0.05
MJ132	JUNCTION	0.09	0.49	182.23	0	09:35	0.49
MJ133	JUNCTION	0.00	0.00	186.56	0	00:00	0.00
MJ134	JUNCTION	0.11	0.45	181.84	0	09:45	0.45
MJ135	JUNCTION	0.01	0.15	183.40	0	09:11	0.11
MJ136	JUNCTION	0.01	0.06	183.42	0	09:07	0.05
MJ137	JUNCTION	0.04	0.18	182.61	0	09:06	0.17
MJ138	JUNCTION	0.00	0.00	187.83	0	00:00	0.00
MJ139	JUNCTION	0.01	0.09	182.02	0	09:05	0.06
MJ14	JUNCTION	0.01	0.08	181.57	0	09:08	0.08

MJ140	JUNCTION	0.00	0.02	182.19	0	09:17	0.02
MJ142	JUNCTION	0.02	0.35	182.97	0	09:19	0.35
MJ143	JUNCTION	0.01	0.09	184.25	0	09:08	0.09
MJ144	JUNCTION	0.01	0.04	182.89	0	09:09	0.04
MJ145	JUNCTION	0.03	0.25	182.78	0	09:23	0.24
MJ146	JUNCTION	0.06	0.43	182.79	0	09:21	0.42
MJ147	JUNCTION	0.02	0.13	183.14	0	09:09	0.13
MJ148	JUNCTION	0.04	0.18	183.19	0	09:09	0.18
MJ149	JUNCTION	0.02	0.29	184.29	0	09:08	0.27
MJ15	JUNCTION	0.01	0.08	188.61	0	09:07	0.08
MJ150	JUNCTION	0.00	0.00	184.44	0	00:00	0.00
MJ151	JUNCTION	0.03	0.24	183.63	0	09:14	0.23
MJ152	JUNCTION	0.03	0.18	183.88	0	09:16	0.18
MJ153	JUNCTION	0.02	0.16	184.48	0	09:16	0.15
MJ154	JUNCTION	0.07	0.34	184.82	0	09:13	0.32
MJ155	JUNCTION	0.05	0.23	185.41	0	09:10	0.23
MJ156	JUNCTION	0.02	0.12	185.97	0	09:09	0.12
MJ158	JUNCTION	0.00	0.00	183.48	0	00:00	0.00
MJ16	JUNCTION	0.00	0.04	178.69	0	09:15	0.04
MJ17	JUNCTION	0.01	0.05	181.88	0	09:05	0.04
MJ18	JUNCTION	0.02	0.10	183.46	0	09:09	0.10
MJ19	JUNCTION	0.10	0.17	181.16	0	09:06	0.17
MJ2	JUNCTION	0.02	0.10	177.85	0	09:09	0.10
MJ20	JUNCTION	0.01	0.05	183.33	0	09:08	0.05
MJ21	JUNCTION	0.02	0.10	179.03	0	09:07	0.10
MJ22	JUNCTION	0.06	0.23	186.39	0	09:07	0.22
MJ23	JUNCTION	0.01	0.06	179.33	0	09:06	0.06
MJ24	JUNCTION	0.15	0.82	182.63	0	09:37	0.82
MJ25	JUNCTION	0.03	0.14	183.59	0	09:07	0.13
MJ26	JUNCTION	0.03	0.12	183.00	0	09:09	0.12
MJ27	JUNCTION	0.04	0.16	179.98	0	09:17	0.16
MJ28	JUNCTION	0.00	0.00	183.09	0	00:00	0.00
MJ29	JUNCTION	0.29	0.43	181.47	1	00:00	0.43
MJ3	JUNCTION	0.05	0.18	177.57	0	09:08	0.18
MJ30	JUNCTION	0.03	0.15	181.50	0	09:08	0.14
MJ31	JUNCTION	0.02	0.10	181.17	0	09:09	0.10
MJ32	JUNCTION	0.01	0.07	182.01	0	09:08	0.07
MJ33	JUNCTION	0.01	0.07	181.76	0	09:11	0.07
MJ34	JUNCTION	0.01	0.07	179.76	0	09:06	0.06
MJ35	JUNCTION	0.05	0.20	180.35	0	09:16	0.20
MJ36	JUNCTION	0.03	0.19	182.86	0	09:08	0.18

MJ37	JUNCTION	0.01	0.06	178.70	0	09:11	0.06
MJ38	JUNCTION	0.05	0.16	181.83	0	09:09	0.16
MJ39	JUNCTION	0.00	0.00	183.95	0	00:00	0.00
MJ4	JUNCTION	0.00	0.00	179.70	0	00:00	0.00
MJ40	JUNCTION	0.00	0.03	182.95	0	09:16	0.03
MJ41	JUNCTION	0.01	0.10	183.59	0	09:11	0.10
MJ42	JUNCTION	0.05	0.19	180.84	0	09:16	0.18
MJ43	JUNCTION	0.00	0.00	186.65	0	00:00	0.00
MJ44	JUNCTION	0.01	0.05	183.45	0	09:14	0.05
MJ45	JUNCTION	0.00	0.03	184.83	0	09:06	0.03
MJ46	JUNCTION	0.01	0.04	181.60	0	09:07	0.04
MJ47	JUNCTION	0.07	0.15	182.98	0	09:07	0.14
MJ48	JUNCTION	0.10	0.40	176.85	0	09:20	0.40
MJ49	JUNCTION	0.01	0.04	182.94	0	09:11	0.04
MJ5	JUNCTION	0.02	0.12	183.75	0	09:05	0.10
MJ50	JUNCTION	0.15	0.23	182.83	0	23:58	0.23
MJ51	JUNCTION	0.01	0.04	181.08	0	09:07	0.04
MJ52	JUNCTION	0.16	0.24	182.83	0	23:58	0.24
MJ53	JUNCTION	0.00	0.02	182.27	0	09:07	0.02
MJ54	JUNCTION	0.00	0.00	182.45	0	00:00	0.00
MJ55	JUNCTION	0.02	0.11	178.64	0	09:08	0.11
MJ56	JUNCTION	0.00	0.02	182.94	0	09:07	0.02
MJ57	JUNCTION	0.01	0.08	178.91	0	09:08	0.08
MJ58	JUNCTION	0.29	0.41	182.83	0	23:59	0.41
MJ59	JUNCTION	0.29	0.41	182.36	1	00:00	0.41
MJ60	JUNCTION	0.01	0.09	180.10	0	09:07	0.09
MJ61	JUNCTION	0.34	0.49	181.23	1	00:00	0.49
MJ62	JUNCTION	0.00	0.00	183.87	0	00:00	0.00
MJ63	JUNCTION	0.04	0.17	182.40	0	09:15	0.17
MJ64	JUNCTION	0.09	0.23	182.40	0	09:15	0.23
MJ65	JUNCTION	0.01	0.06	182.54	0	09:06	0.06
MJ66	JUNCTION	0.01	0.06	180.36	0	09:08	0.06
MJ67	JUNCTION	0.07	0.25	186.24	0	09:09	0.25
MJ68	JUNCTION	0.00	0.00	184.22	0	00:00	0.00
MJ69	JUNCTION	0.01	0.09	182.38	0	09:07	0.08
MJ7	JUNCTION	0.03	0.17	186.75	0	09:08	0.16
MJ70	JUNCTION	0.02	0.08	183.34	0	09:07	0.08
MJ71	JUNCTION	0.01	0.09	179.09	0	09:07	0.08
MJ72	JUNCTION	0.06	0.22	182.66	0	09:13	0.21
MJ73	JUNCTION	0.01	0.10	182.45	0	09:08	0.10
MJ74	JUNCTION	0.03	0.22	182.87	0	09:10	0.22

MJ75	JUNCTION	0.02	0.11	183.08	0	09:11	0.11
MJ76	JUNCTION	0.01	0.06	183.80	0	09:07	0.05
MJ77	JUNCTION	0.01	0.06	182.42	0	09:07	0.05
MJ78	JUNCTION	0.01	0.07	183.20	0	09:08	0.07
MJ79	JUNCTION	0.03	0.14	182.79	0	09:11	0.14
MJ8	JUNCTION	0.00	0.00	189.00	0	00:00	0.00
MJ80	JUNCTION	0.01	0.08	182.80	0	09:06	0.07
MJ81	JUNCTION	0.02	0.13	183.28	0	09:06	0.12
MJ82	JUNCTION	0.03	0.15	182.84	0	09:11	0.15
MJ83	JUNCTION	0.07	0.24	182.72	0	09:13	0.22
MJ84	JUNCTION	0.01	0.05	185.70	0	09:05	0.04
MJ85	JUNCTION	0.00	0.05	183.94	0	09:07	0.05
MJ86	JUNCTION	0.01	0.06	184.42	0	09:06	0.06
MJ87	JUNCTION	0.08	0.23	183.55	0	09:09	0.22
MJ88	JUNCTION	0.00	0.00	183.05	0	00:00	0.00
MJ89	JUNCTION	0.04	0.14	182.90	0	09:10	0.14
MJ9	JUNCTION	0.02	0.11	178.74	0	09:07	0.10
MJ90	JUNCTION	0.31	0.43	182.11	1	00:00	0.43
MJ91	JUNCTION	0.01	0.03	184.17	0	09:09	0.03
MJ92	JUNCTION	0.02	0.09	186.05	0	09:08	0.09
MJ93	JUNCTION	0.01	0.06	185.03	0	09:05	0.06
MJ94	JUNCTION	0.10	0.14	184.66	1	00:00	0.14
MJ95	JUNCTION	0.02	0.13	181.29	0	09:14	0.12
MJ96	JUNCTION	0.03	0.10	183.01	0	09:39	0.10
MJ97	JUNCTION	0.48	0.69	183.12	0	09:27	0.68
MJ98	JUNCTION	0.03	0.14	183.51	0	09:09	0.14
MJ99	JUNCTION	0.01	0.06	185.44	0	09:09	0.06
OGS-	JUNCTION	0.03	0.12	180.61	0	09:15	0.11
RICE_POND_OUTLET	JUNCTION	0.18	0.33	181.15	0	11:05	0.33
OF1	OUTFALL	0.00	0.00	184.20	0	00:00	0.00
OF10-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF11-M	OUTFALL	0.00	0.00	183.10	0	00:00	0.00
OF12-	OUTFALL	0.03	0.35	179.50	0	09:15	0.35
OF13-1	OUTFALL	0.02	0.12	180.43	0	09:15	0.11
OF13-2	OUTFALL	0.01	0.07	180.38	0	09:10	0.07
OF14-	OUTFALL	0.19	0.35	179.89	0	11:06	0.35
OF15-	OUTFALL	0.00	0.00	177.00	0	00:00	0.00
OF16-	OUTFALL	0.04	0.19	177.19	0	09:06	0.18
OF17-	OUTFALL	0.12	0.73	178.53	0	09:08	0.73
OF18-M	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF19-	OUTFALL	0.03	0.13	178.28	0	09:10	0.13

OF1-M	OUTFALL	0.10	0.40	175.40	0	09:20	0.40
OF20-	OUTFALL	0.10	0.45	178.45	0	09:11	0.36
OF21-	OUTFALL	0.00	0.00	179.15	0	00:00	0.00
OF22_M	OUTFALL	0.00	0.11	181.36	0	09:23	0.10
OF23-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF24-	OUTFALL	0.07	0.35	177.61	0	09:15	0.35
OF25-	OUTFALL	0.08	0.28	177.87	0	09:14	0.28
OF26-M	OUTFALL	0.02	0.15	178.68	0	09:09	0.15
OF27-1	OUTFALL	0.09	0.21	177.40	0	10:06	0.21
OF27-M	OUTFALL	0.02	0.14	179.00	0	09:16	0.14
OF28-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF29-	OUTFALL	0.00	0.00	178.63	0	00:00	0.00
OF2-M	OUTFALL	0.03	0.16	177.26	0	09:17	0.16
OF2-M-	OUTFALL	0.01	0.07	177.17	0	09:07	0.07
OF3-	OUTFALL	0.09	0.26	176.26	0	09:14	0.24
OF30-M	OUTFALL	0.02	0.08	179.91	0	09:07	0.08
OF31-M	OUTFALL	0.02	0.11	181.49	0	09:09	0.11
OF32-M	OUTFALL	0.04	0.23	185.15	0	09:07	0.22
OF33-	OUTFALL	0.11	0.39	177.42	0	09:09	0.38
OF34-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF35-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF36-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF37-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF38-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF39-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF3-M	OUTFALL	0.02	0.11	177.84	0	09:06	0.10
OF40-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF41-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF42-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF43-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF44-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF45-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF46-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF47-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF48-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF49-	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF4-M	OUTFALL	0.01	0.07	175.69	0	09:06	0.07
OF50	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF51	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF52	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF53	OUTFALL	0.00	0.00	0.00	0	00:00	0.00

OF54	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF55	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF56	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF57	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF58	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF59	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF5-M	OUTFALL	0.01	0.04	182.90	0	09:11	0.04
OF6-	OUTFALL	0.06	0.22	175.72	0	09:09	0.22
OF60	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF61	OUTFALL	0.00	0.00	0.00	0	00:00	0.00
OF7-M	OUTFALL	0.03	0.17	177.31	0	09:08	0.17
OF8-	OUTFALL	0.00	0.00	176.00	0	00:00	0.00
OF9-M	OUTFALL	0.03	0.16	179.20	0	09:07	0.15
Gill_RD_Pond	STORAGE	0.99	1.96	178.61	0	10:05	1.95
Rice_Pond	STORAGE	2.74	3.65	182.90	0	11:05	3.65
SCU1	STORAGE	0.17	1.57	186.07	0	09:23	1.55
SCU2	STORAGE	0.32	2.00	189.00	0	09:21	2.00
SCU3	STORAGE	0.00	0.00	187.50	0	00:00	0.00

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
4390544795870	JUNCTION	0.024	0.165	0	09:10	0.0379	0.381	-0.427
4390824795850	JUNCTION	0.000	0.244	0	09:11	0	0.464	0.000
4391014795950	JUNCTION	0.107	0.189	0	09:05	0.166	0.343	0.072
4391194795830	JUNCTION	0.058	0.194	0	09:08	0.0912	0.666	-0.100
4391304795930	JUNCTION	0.187	0.209	0	09:05	0.292	0.331	-4.021
4391504795920	JUNCTION	0.046	0.046	0	09:05	0.071	0.071	-0.051
4391544795810	JUNCTION	0.000	0.279	0	09:08	0	0.9	0.514
4391664795910	JUNCTION	0.152	0.200	0	09:05	0.237	0.319	-0.368
4391884795900	JUNCTION	0.054	0.054	0	09:05	0.0838	0.0838	0.002
4392024795890	JUNCTION	0.175	0.184	0	09:05	0.273	0.307	-0.530
4393014795360	JUNCTION	0.397	0.707	0	09:05	0.619	1.42	0.239

4393464795440	JUNCTION	0.644	0.644	0	09:05	1.03	1.03	-0.352	
4394414795760	JUNCTION	0.069	0.069	0	09:05	0.141	0.141	-1.075	
4394754795460	JUNCTION	0.385	0.514	0	09:05	0.6	2.19	0.008	
4394784795740	JUNCTION	0.000	0.379	0	09:14	0	0.968	0.311	
4395014795520	JUNCTION	0.236	1.622	0	09:06	0.367	4.23	0.495	
4395024795240	JUNCTION	0.240	0.240	0	09:05	0.512	0.512	0.264	
4395174795720	JUNCTION	0.136	0.512	0	09:12	0.227	1.28	0.388	
4395694795410	JUNCTION	0.382	0.382	0	09:05	0.596	0.596	-0.131	
4396134795480	JUNCTION	0.318	1.078	0	09:05	0.53	1.68	-0.029	
4396584795550	JUNCTION	0.862	0.862	0	09:05	1.34	1.34	-0.263	
4396744795620	JUNCTION	0.516	0.516	0	09:05	1.05	1.05	-0.049	
CB15	JUNCTION	0.259	0.259	0	09:05	0.37	0.37	0.012	
CB16	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB17	JUNCTION	0.181	0.181	0	09:05	0.259	0.259	0.111	
CB18	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB19	JUNCTION	0.148	0.148	0	09:05	0.212	0.212	0.005	
CB20	JUNCTION	0.215	0.286	0	09:03	0.308	0.508	0.009	
CB21	JUNCTION	0.000	0.017	0	09:05	0	0.00043	1.197	
CB22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB23	JUNCTION	0.040	0.040	0	09:05	0.0578	0.0578	0.011	
CB26	JUNCTION	0.000	0.316	0	09:14	0	0.561	-0.034	
CB27	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB30	JUNCTION	0.000	0.027	0	09:14	0	0.000152	4.375	
CB30_1	JUNCTION	0.000	0.091	0	09:14	0	0.000537	-26.571	
CB31	JUNCTION	0.000	0.051	0	09:23	0	0.133	-0.063	
CB32	JUNCTION	0.000	0.128	0	09:23	0	0.255	-0.031	
CB33	JUNCTION	0.000	0.220	0	09:23	0	0.294	-0.028	
CB34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB35	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CB41	JUNCTION	0.000	0.064	0	09:19	0	0.149	-0.079	
CB42	JUNCTION	0.000	0.106	0	09:11	0	0.151	-0.076	
CB-58	JUNCTION	0.000	1.201	0	09:14	0	5.65	0.042	
CBMH_1	JUNCTION	0.000	0.042	0	09:13	0	0.161	0.035	
CBMH_40	JUNCTION	0.000	0.001	0	10:01	0	0.00118	0.357	
CBMH_41	JUNCTION	0.000	0.003	0	09:45	0	0.00495	-0.178	
CBMH_42	JUNCTION	0.000	0.000	0	10:23	0	0.000411	0.103	
CBMH_44	JUNCTION	0.000	0.006	0	09:36	0	0.00442	-0.046	
CBMH_46	JUNCTION	0.000	0.015	0	09:23	0	0.0282	-0.006	
CBMH_62	JUNCTION	0.000	0.156	0	09:11	0	0.97	-0.356	
CBMH_9	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr

CBMH1	JUNCTION	0.000	0.026	0	09:05	0	0.0028	-0.448	
CBMH1_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH10_Main	JUNCTION	0.000	0.206	0	09:10	0	0.798	0.005	
CBMH2	JUNCTION	0.000	0.013	0	09:05	0	0.12	0.019	
CBMH2_ON	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH3_ON	JUNCTION	0.000	0.007	0	09:05	0	0.00149	1.201	
CBMH4_ON	JUNCTION	0.000	0.018	0	09:05	0	0.00998	15.051	
CBMH5	JUNCTION	0.000	0.254	0	09:06	0	1.22	0.007	
CBMH5_ON	JUNCTION	0.060	0.104	0	09:06	0.0856	0.388	0.207	
CBMH6_ON	JUNCTION	0.000	0.095	0	09:09	0	0.379	0.189	
CBMH7	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CBMH7_ON	JUNCTION	0.000	0.094	0	09:11	0	0.378	-0.227	
CBMH8_ON	JUNCTION	0.000	0.208	0	09:09	0	0.8	0.235	
CBMH9_ON	JUNCTION	0.000	0.206	0	09:10	0	0.798	0.001	
DCB72	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
DICBMH42	JUNCTION	0.000	0.133	0	10:05	0	2.19	0.050	
J1	JUNCTION	0.253	0.253	0	09:05	0.515	0.515	-0.126	
J10	JUNCTION	0.218	1.725	0	09:08	0.324	4.18	-0.001	
J101	JUNCTION	0.000	0.209	0	09:13	0	1.58	0.014	
J102	JUNCTION	0.000	0.524	0	09:15	0	4.15	0.121	
J105	JUNCTION	0.000	0.013	0	09:09	0	0.00238	-1.132	
J106	JUNCTION	0.000	0.020	0	09:05	0	0.00829	-1.167	
J110	JUNCTION	0.000	0.007	0	09:05	0	0.0974	0.102	
J113	JUNCTION	0.000	0.007	0	09:05	0	0.097	0.011	
J115	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J116	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J12	JUNCTION	0.000	0.048	0	09:07	0	0.165	0.021	
J125	JUNCTION	0.000	0.542	0	09:12	0	4.44	0.004	
J127	JUNCTION	0.191	0.286	0	09:06	0.273	0.775	-0.001	
J128	JUNCTION	0.000	0.149	0	09:09	0	0.502	0.005	
J15	JUNCTION	0.000	0.048	0	09:07	0	0.165	0.028	
J2	JUNCTION	0.181	0.296	0	09:08	0.369	0.647	-0.456	
J20	JUNCTION	0.000	0.048	0	09:08	0	0.165	0.130	
J24	JUNCTION	0.000	0.579	0	09:09	0	4.36	0.009	
J3	JUNCTION	0.000	0.289	0	09:10	0	0.649	0.451	
J30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J31	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J34	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J35	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J36	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J38	JUNCTION	0.057	0.057	0	09:05	0.081	0.081	-0.026	

J4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J42	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J47	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J48	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J49	JUNCTION	0.000	0.017	0	09:11	0	0.000654	-6.521	
J5	JUNCTION	0.000	0.049	0	09:07	0	0.165	0.037	
J50	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J52	JUNCTION	0.000	0.316	0	09:05	0	3.28	0.026	
J55	JUNCTION	0.000	0.317	0	09:06	0	3.28	-0.000	
J6	JUNCTION	0.000	0.267	0	09:15	0	0.647	0.105	
J62	JUNCTION	0.000	0.317	0	09:06	0	3.28	0.007	
J66	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J67	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J7	JUNCTION	0.000	0.095	0	09:11	0	0.239	0.440	
J70	JUNCTION	0.000	0.105	0	09:08	0	0.703	0.015	
J78	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J8	JUNCTION	0.124	2.569	0	09:14	0.206	5.34	0.018	
J83	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
J9	JUNCTION	0.342	1.746	0	09:08	0.49	4.35	-0.008	
J91	JUNCTION	0.000	0.542	0	09:12	0	4.44	0.002	
J93	JUNCTION	0.000	0.055	0	09:10	0	0.185	0.326	
J95	JUNCTION	0.000	0.055	0	09:10	0	0.185	0.038	
J98	JUNCTION	0.000	0.055	0	09:09	0	0.184	-0.334	
MH_1	JUNCTION	0.000	0.041	0	09:14	0	0.161	0.044	
MH_10	JUNCTION	0.000	0.028	0	09:14	0	0.0916	0.016	
MH_11	JUNCTION	0.000	0.028	0	09:14	0	0.0916	-0.146	
MH_12	JUNCTION	0.000	0.029	0	09:05	0	0.102	0.067	
MH_13	JUNCTION	0.000	0.028	0	09:06	0	0.102	0.054	
MH_14	JUNCTION	0.000	0.028	0	09:06	0	0.102	0.118	
MH_15	JUNCTION	0.000	0.164	0	09:09	0	0.568	0.035	
MH_16	JUNCTION	0.000	0.164	0	09:09	0	0.568	-0.066	
MH_17	JUNCTION	0.000	0.164	0	09:10	0	0.568	0.224	
MH_18	JUNCTION	0.000	0.029	0	09:05	0	0.102	0.051	
MH_19	JUNCTION	0.000	0.021	0	09:05	0	0.0882	0.024	
MH_2	JUNCTION	0.000	0.041	0	09:15	0	0.161	0.015	
MH_20	JUNCTION	0.000	0.021	0	09:05	0	0.0882	0.060	
MH_21	JUNCTION	0.000	0.021	0	09:06	0	0.0882	0.084	
MH_22	JUNCTION	0.000	0.049	0	09:06	0	0.19	0.061	
MH_23	JUNCTION	0.000	0.048	0	09:07	0	0.19	0.359	
MH_24	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr

MH_25	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
MH_26	JUNCTION	0.000	0.048	0	09:07	0	0.189	0.041
MH_27	JUNCTION	0.000	0.048	0	09:08	0	0.189	0.132
MH_29	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
MH_30	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
MH_34	JUNCTION	0.000	0.062	0	09:05	0	0.192	0.146
MH_35	JUNCTION	0.000	0.061	0	09:06	0	0.191	-0.012
MH_36	JUNCTION	0.000	0.061	0	09:06	0	0.191	0.223
MH_37	JUNCTION	0.000	0.233	0	09:08	0	1.19	-0.042
MH_38	JUNCTION	0.000	0.232	0	09:08	0	1.19	0.119
MH_39	JUNCTION	0.000	0.706	0	09:09	0	4.29	0.113
MH_43	JUNCTION	0.000	0.002	0	09:45	0	0.00182	0.090
MH_45	JUNCTION	0.000	0.009	0	09:36	0	0.0169	-0.060
MH_47	JUNCTION	0.000	0.702	0	09:10	0	4.3	0.372
MH_56	JUNCTION	0.000	0.038	0	09:16	0	0.686	0.125
MH_57	JUNCTION	0.000	0.039	0	09:22	0	0.685	-0.043
MH_58	JUNCTION	0.000	0.039	0	09:22	0	0.685	0.012
MH_59	JUNCTION	0.000	0.177	0	09:23	0	1.08	0.018
MH_61	JUNCTION	0.000	0.158	0	09:10	0	0.974	0.444
MH_63	JUNCTION	0.000	0.184	0	09:10	0	1.66	0.183
MH_64	JUNCTION	0.000	0.175	0	09:10	0	1.66	0.053
MH_65	JUNCTION	0.000	0.353	0	09:17	0	2.08	-0.152
MH_66	JUNCTION	0.000	0.353	0	09:17	0	2.09	0.093
MH_67	JUNCTION	0.000	1.144	0	09:13	0	6.69	0.068
MH_68	JUNCTION	0.000	1.144	0	09:13	0	6.69	0.057
MH_69	JUNCTION	0.000	0.297	0	11:05	0	8	0.024
MH_70	JUNCTION	0.000	0.297	0	11:06	0	8	0.004
MH1	JUNCTION	0.000	0.012	0	09:05	0	0.000664	0.595
MH1_Main	JUNCTION	0.000	0.085	0	09:14	0	0.138	-0.113
MH10	JUNCTION	0.000	1.098	0	09:08	0	3.34	0.020
MH10__S	JUNCTION	0.000	0.855	0	09:08	0	0.298	3.703
MH10_Main	JUNCTION	0.000	0.385	0	09:14	0	3.56	0.236
MH11	JUNCTION	0.000	1.489	0	09:08	0	4.46	0.011
MH11__S	JUNCTION	0.000	0.689	0	09:06	0	0.798	4.091
MH11_Main	JUNCTION	0.000	0.384	0	09:14	0	3.55	0.008
MH12	JUNCTION	0.000	0.286	0	09:03	0	0.508	0.055
MH13	JUNCTION	0.000	1.544	0	09:08	0	4.84	0.023
MH13_Main	JUNCTION	0.000	0.088	0	09:08	0	0.19	1.877
MH13_Main_	JUNCTION	0.000	0.088	0	09:09	0	0.187	-0.939
MH14	JUNCTION	0.000	1.518	0	09:08	0	4.84	0.013
MH14_Main	JUNCTION	0.000	0.088	0	09:09	0	0.193	-0.313

MH15	JUNCTION	0.000	1.518	0	09:08	0	4.83	-0.001	
MH15_Main	JUNCTION	0.000	0.084	0	09:10	0	0.194	-0.031	
MH16	JUNCTION	0.000	1.530	0	09:08	0	4.95	0.009	
MH2	JUNCTION	0.000	0.322	0	09:05	0	1.02	0.024	
MH2_Main	JUNCTION	0.000	0.633	0	09:22	0	2.83	0.013	
MH2_S	JUNCTION	0.471	0.753	0	09:05	0.674	1.09	0.074	
MH21	JUNCTION	0.000	0.151	0	09:09	0	0.49	0.158	
MH21_S	JUNCTION	0.307	1.697	0	09:09	0.44	4.35	0.008	
MH22	JUNCTION	0.000	0.304	0	09:09	0	0.985	0.056	
MH23	JUNCTION	0.000	0.562	0	09:14	0	1.91	-0.001	
MH24	JUNCTION	0.000	1.193	0	09:14	0	5.5	0.008	
MH25	JUNCTION	0.000	1.201	0	09:14	0	5.64	0.021	
MH25-1	JUNCTION	0.000	1.201	0	09:14	0	5.65	0.008	
MH26	JUNCTION	0.000	1.206	0	09:15	0	5.7	-0.011	
MH3	JUNCTION	0.000	0.359	0	09:05	0	1.33	0.068	
MH3_Main	JUNCTION	0.000	0.338	0	09:15	0	2.44	0.046	
MH3_S	JUNCTION	0.579	0.658	0	09:07	0.829	0.867	-0.081	
MH30	JUNCTION	0.000	0.146	0	09:14	0	0.633	0.047	
MH31	JUNCTION	0.000	0.147	0	09:19	0	0.633	-0.002	
MH32	JUNCTION	0.000	0.267	0	09:10	0	0.937	0.233	
MH33	JUNCTION	0.000	0.270	0	09:10	0	0.935	-0.607	
MH34	JUNCTION	0.000	0.107	0	09:08	0	0.3	0.175	
MH34_S	JUNCTION	0.544	0.731	0	09:07	0.779	1.5	-0.105	
MH35	JUNCTION	0.000	0.106	0	09:08	0	0.299	0.125	
MH36	JUNCTION	0.000	0.105	0	09:09	0	0.299	0.016	
MH36_S	JUNCTION	0.000	0.413	0	09:09	0	0.728	0.311	
MH37	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH37_S	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MH38	JUNCTION	0.000	0.010	0	09:12	0	0.000907	2.109	
MH39	JUNCTION	0.000	0.035	0	09:11	0	0.0162	0.838	
MH4	JUNCTION	0.000	0.384	0	09:05	0	1.48	0.041	
MH4_Main	JUNCTION	0.000	0.314	0	09:24	0	2.56	-0.068	
MH40	JUNCTION	0.000	0.414	0	09:10	0	1.39	0.495	
MH41	JUNCTION	0.000	0.480	0	09:10	0	1.67	0.181	
MH41_S	JUNCTION	0.000	0.453	0	09:07	0	0.76	0.000	
MH42	JUNCTION	0.000	0.133	0	10:05	0	2.18	0.085	
MH43	JUNCTION	0.000	0.133	0	10:05	0	2.18	-0.021	
MH5	JUNCTION	0.000	0.137	0	09:14	0	0.273	-3.395	
MH5_Main	JUNCTION	0.000	0.346	0	09:25	0	3.01	0.042	
MH6	JUNCTION	0.000	0.110	0	09:18	0	0.286	0.210	
MH6_Main	JUNCTION	0.000	0.333	0	09:16	0	3.11	0.112	

MH7	JUNCTION	0.000	0.087	0	09:05	0	0.282	-0.191	
MH7_Main	JUNCTION	0.000	0.333	0	09:16	0	3.11	0.015	
MH8	JUNCTION	0.000	0.495	0	09:10	0	2.03	-0.102	
MH8_Main	JUNCTION	0.000	0.360	0	09:18	0	3.11	0.085	
MH8_S	JUNCTION	0.491	0.763	0	09:08	0.703	1.06	0.003	
MH9	JUNCTION	0.000	0.957	0	09:05	0	3	0.134	
MH9__S	JUNCTION	0.000	0.710	0	09:09	0	0.791	-1.316	
MH9_Main	JUNCTION	0.000	0.384	0	09:15	0	3.24	-0.225	
MJ_	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ1	JUNCTION	0.150	0.860	0	09:08	0.25	1.92	1.634	
MJ10	JUNCTION	0.018	0.170	0	09:05	0.0293	0.274	-0.035	
MJ100	JUNCTION	2.056	3.208	0	09:05	2.94	5.56	0.136	
MJ101	JUNCTION	0.473	0.482	0	09:05	0.677	0.718	-0.012	
MJ102	JUNCTION	0.428	0.497	0	09:10	0.452	0.812	0.000	
MJ103	JUNCTION	0.482	0.487	0	09:05	0.689	1.12	0.272	
MJ104	JUNCTION	0.095	0.346	0	09:07	0.136	0.785	-1.247	
MJ105	JUNCTION	0.316	1.816	0	09:08	0.44	3.64	29.536	
MJ106	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ107	JUNCTION	0.055	0.392	0	09:08	0.078	0.908	-0.971	
MJ108	JUNCTION	0.451	0.451	0	09:05	0.646	0.646	-1.048	
MJ109	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ110	JUNCTION	0.298	0.298	0	09:05	0.427	0.427	0.557	
MJ111	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ112	JUNCTION	0.299	0.699	0	09:12	0.49	1.93	0.193	
MJ113	JUNCTION	0.160	0.160	0	09:10	0.175	0.547	-1.065	
MJ114	JUNCTION	0.055	0.055	0	09:05	0.0794	0.0794	-4.931	
MJ115	JUNCTION	0.127	0.442	0	09:05	0.182	0.662	0.023	
MJ116	JUNCTION	0.922	1.043	0	09:05	1.32	1.92	0.573	
MJ117	JUNCTION	0.029	0.029	0	09:05	0.0412	0.0412	-10.227	
MJ118	JUNCTION	0.176	1.608	0	09:06	0.251	2.8	18.725	
MJ119	JUNCTION	0.207	1.564	0	09:08	0.296	3.45	-0.016	
MJ12	JUNCTION	1.102	1.102	0	09:05	2	2	-0.163	
MJ120	JUNCTION	0.194	0.373	0	09:10	0.392	0.815	0.000	
MJ121	JUNCTION	0.329	0.329	0	09:05	0.471	0.471	0.170	
MJ122	JUNCTION	1.283	1.585	0	09:05	1.84	2.79	-0.106	
MJ123	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ124	JUNCTION	0.400	0.995	0	09:05	0.572	1.87	0.516	
MJ125	JUNCTION	0.424	0.424	0	09:05	0.607	0.607	-1.460	
MJ126	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ127	JUNCTION	0.246	0.246	0	09:05	0.352	0.352	-2.582	

MJ128	JUNCTION	0.754	0.798	0	09:05	1.08	1.2	-0.266	
MJ129	JUNCTION	0.848	1.779	0	09:05	1.21	3.94	0.656	
MJ13	JUNCTION	0.778	1.060	0	09:05	1.11	1.72	-0.035	
MJ130	JUNCTION	1.139	1.139	0	09:05	1.63	1.63	-1.659	
MJ131	JUNCTION	0.472	0.477	0	09:05	0.675	0.691	-0.341	
MJ132	JUNCTION	0.046	0.456	0	09:06	0.0652	2.57	0.022	
MJ133	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ134	JUNCTION	0.116	1.881	0	09:07	0.167	3.78	3.288	
MJ135	JUNCTION	0.791	1.279	0	09:10	1.17	1.47	-0.954	
MJ136	JUNCTION	0.067	0.316	0	09:05	0.0957	0.431	-1.660	
MJ137	JUNCTION	1.232	1.232	0	09:05	1.76	1.76	-3.349	
MJ138	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ139	JUNCTION	0.452	0.452	0	09:05	0.647	0.647	-0.006	
MJ14	JUNCTION	0.073	0.141	0	09:06	0.121	0.262	0.227	
MJ140	JUNCTION	0.000	0.019	0	09:07	0	0.0123	12.767	
MJ142	JUNCTION	0.000	0.811	0	09:11	0	0.571	2.205	
MJ143	JUNCTION	0.237	0.544	0	09:07	0.339	0.533	0.065	
MJ144	JUNCTION	0.183	0.183	0	09:05	0.261	0.261	-0.714	
MJ145	JUNCTION	0.753	1.196	0	09:08	1.11	1.73	0.286	
MJ146	JUNCTION	0.000	1.906	0	09:09	0	4.1	0.116	
MJ147	JUNCTION	0.326	2.310	0	09:09	0.467	5.85	-0.559	
MJ148	JUNCTION	1.224	2.413	0	09:07	1.75	6.53	0.108	
MJ149	JUNCTION	0.000	0.136	0	09:05	0	0.0496	0.213	
MJ15	JUNCTION	0.659	0.659	0	09:05	0.943	0.943	-0.300	
MJ150	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ151	JUNCTION	0.193	0.193	0	09:05	0.276	0.276	0.777	
MJ152	JUNCTION	1.528	2.003	0	09:13	2.25	5.35	-0.044	
MJ153	JUNCTION	0.149	1.189	0	09:14	0.232	2.11	0.222	
MJ154	JUNCTION	0.570	3.155	0	09:09	0.888	7.7	0.394	
MJ155	JUNCTION	0.827	2.786	0	09:07	1.29	6.79	-0.231	
MJ156	JUNCTION	0.679	1.049	0	09:05	1.06	1.92	-0.632	
MJ158	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ16	JUNCTION	0.000	0.019	0	09:07	0	0.0116	20.258	
MJ17	JUNCTION	0.173	0.173	0	09:05	0.248	0.248	-4.125	
MJ18	JUNCTION	0.041	0.276	0	09:07	0.0586	0.681	0.364	
MJ19	JUNCTION	0.394	0.500	0	09:05	0.563	0.777	6.096	
MJ2	JUNCTION	0.267	0.325	0	09:05	0.445	0.578	0.252	
MJ20	JUNCTION	0.058	0.085	0	09:05	0.0966	0.146	0.398	
MJ21	JUNCTION	0.089	0.444	0	09:06	0.127	0.738	0.201	
MJ22	JUNCTION	3.770	4.611	0	09:05	5.4	7.7	0.248	
MJ23	JUNCTION	0.084	0.084	0	09:05	0.146	0.146	0.027	

MJ24	JUNCTION	0.623	1.754	0	09:07	0.892	3.34	1.685	
MJ25	JUNCTION	0.355	0.379	0	09:05	0.584	0.653	0.183	
MJ26	JUNCTION	0.463	0.664	0	09:05	0.688	1.51	0.580	
MJ27	JUNCTION	0.272	2.019	0	09:16	0.455	6.17	0.085	
MJ28	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ29	JUNCTION	0.155	0.330	0	09:10	0.184	0.66	0.000	
MJ3	JUNCTION	0.663	2.088	0	09:06	0.948	5.45	0.226	
MJ30	JUNCTION	0.228	0.333	0	09:05	0.381	0.642	0.291	
MJ31	JUNCTION	0.270	0.522	0	09:07	0.451	1.09	-0.346	
MJ32	JUNCTION	0.172	0.230	0	09:05	0.287	0.432	0.384	
MJ33	JUNCTION	0.000	0.152	0	09:09	0	0.391	-1.038	
MJ34	JUNCTION	0.305	0.323	0	09:05	0.436	0.462	-0.042	
MJ35	JUNCTION	0.213	1.893	0	09:16	0.37	5.72	0.202	
MJ36	JUNCTION	2.046	2.247	0	09:05	2.93	3.33	-0.970	
MJ37	JUNCTION	0.142	0.142	0	09:05	0.246	0.246	-2.410	
MJ38	JUNCTION	0.195	0.215	0	09:05	0.279	0.397	0.000	
MJ39	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ40	JUNCTION	0.000	0.043	0	09:07	0	0.0416	7.611	
MJ41	JUNCTION	0.000	0.062	0	09:06	0	0.029	9.319	
MJ42	JUNCTION	0.203	1.772	0	09:15	0.291	5.27	0.140	
MJ43	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ44	JUNCTION	0.061	0.061	0	09:05	0.101	0.101	2.492	
MJ45	JUNCTION	0.097	0.097	0	09:05	0.139	0.139	-0.429	
MJ46	JUNCTION	0.049	0.058	0	09:05	0.0708	0.0852	-2.439	
MJ47	JUNCTION	0.180	0.180	0	09:05	0.257	0.259	0.000	
MJ48	JUNCTION	0.216	1.371	0	09:08	0.353	2.76	2.155	
MJ49	JUNCTION	0.000	0.088	0	09:07	0	0.199	-1.734	
MJ5	JUNCTION	0.158	0.158	0	09:05	0.245	0.245	0.036	
MJ50	JUNCTION	0.000	0.038	0	09:16	0	0.0627	201.539	
MJ51	JUNCTION	0.073	0.073	0	09:05	0.105	0.105	0.072	
MJ52	JUNCTION	0.226	0.226	0	09:10	0.307	0.371	42.580	
MJ53	JUNCTION	0.024	0.024	0	09:05	0.0349	0.0349	-7.032	
MJ54	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ55	JUNCTION	0.325	0.870	0	09:07	0.555	1.63	-0.044	
MJ56	JUNCTION	0.075	0.075	0	09:05	0.108	0.109	-1.384	
MJ57	JUNCTION	0.121	0.293	0	09:07	0.174	0.604	0.118	
MJ58	JUNCTION	0.040	0.254	0	09:11	0.0581	0.338	0.000	
MJ59	JUNCTION	0.230	0.230	0	09:05	0.403	0.403	0.000	
MJ60	JUNCTION	0.025	0.396	0	09:07	0.0362	0.705	0.137	
MJ61	JUNCTION	0.125	0.273	0	09:10	0.198	0.516	0.000	

MJ62	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ63	JUNCTION	0.081	1.738	0	09:14	0.116	5.01	0.238	
MJ64	JUNCTION	0.178	0.272	0	09:05	0.255	0.489	6.204	
MJ65	JUNCTION	0.162	0.233	0	09:05	0.232	0.377	-1.212	
MJ66	JUNCTION	0.018	0.160	0	09:06	0.0312	0.267	0.265	
MJ67	JUNCTION	1.447	1.447	0	09:05	2.07	2.07	1.140	
MJ68	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ69	JUNCTION	0.275	0.411	0	09:05	0.393	0.671	0.309	
MJ7	JUNCTION	1.270	1.463	0	09:05	1.93	2.31	0.417	
MJ70	JUNCTION	0.572	0.757	0	09:05	0.819	1.48	0.630	
MJ71	JUNCTION	0.314	0.314	0	09:05	0.513	0.513	-2.305	
MJ72	JUNCTION	0.257	1.583	0	09:12	0.368	4.43	0.204	
MJ73	JUNCTION	0.071	0.250	0	09:06	0.102	0.408	-0.815	
MJ74	JUNCTION	0.462	0.623	0	09:05	0.661	1.02	0.282	
MJ75	JUNCTION	0.028	0.115	0	09:08	0.0406	0.22	0.859	
MJ76	JUNCTION	0.092	0.246	0	09:05	0.131	0.387	0.476	
MJ77	JUNCTION	0.037	0.180	0	09:05	0.0534	0.273	0.223	
MJ78	JUNCTION	0.018	0.229	0	09:06	0.0261	0.39	-3.205	
MJ79	JUNCTION	0.038	0.710	0	09:11	0.0543	1.52	0.009	
MJ8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ80	JUNCTION	0.178	0.287	0	09:05	0.255	0.437	-0.193	
MJ81	JUNCTION	0.194	0.234	0	09:05	0.277	0.365	0.246	
MJ82	JUNCTION	0.210	0.722	0	09:09	0.301	1.51	0.248	
MJ83	JUNCTION	0.071	0.856	0	09:10	0.102	2.57	0.628	
MJ84	JUNCTION	0.356	0.356	0	09:05	0.509	0.509	-0.699	
MJ85	JUNCTION	0.000	0.347	0	09:06	0	0.609	-0.110	
MJ86	JUNCTION	0.252	0.252	0	09:05	0.361	0.361	0.159	
MJ87	JUNCTION	0.443	0.485	0	09:05	0.634	0.728	0.000	
MJ88	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
MJ89	JUNCTION	0.290	1.016	0	09:08	0.415	2.88	0.130	
MJ9	JUNCTION	0.267	0.267	0	09:05	0.435	0.435	0.385	
MJ90	JUNCTION	0.324	0.446	0	09:08	0.551	0.795	0.000	
MJ91	JUNCTION	0.014	0.085	0	09:06	0.0267	0.172	-4.582	
MJ92	JUNCTION	0.803	1.334	0	09:06	1.15	3.2	0.262	
MJ93	JUNCTION	0.585	0.640	0	09:05	0.91	1.09	0.038	
MJ94	JUNCTION	0.000	0.046	0	09:05	0	0.0698	0.000	
MJ95	JUNCTION	0.592	0.592	0	09:05	1.21	1.21	0.505	
MJ96	JUNCTION	0.000	0.123	0	09:33	0	0.74	1.831	
MJ97	JUNCTION	0.006	0.417	0	09:06	0.0118	0.507	0.000	
MJ98	JUNCTION	0.000	0.895	0	09:07	0	1.75	0.396	
MJ99	JUNCTION	0.055	0.590	0	09:08	0.0794	1.36	-0.034	

OGS-	JUNCTION	0.000	0.041	0	09:15	0	0.161	0.009	
RICE_POND_OUTLET	JUNCTION	0.000	0.297	0	11:05	0	8	0.019	
OF1	OUTFALL	0.000	0.357	0	09:18	0	0.965	0.000	
OF10-	OUTFALL	1.111	1.111	0	09:05	1.59	1.59	0.000	
OF11-M	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF12-	OUTFALL	0.000	0.317	0	09:15	0	0.562	0.000	
OF13-1	OUTFALL	0.828	0.851	0	09:10	1.88	2.04	0.000	
OF13-2	OUTFALL	0.000	0.268	0	09:10	0	0.895	0.000	
OF14-	OUTFALL	0.495	0.514	0	09:05	1.01	9.01	0.000	
OF15-	OUTFALL	3.188	3.188	0	09:05	4.56	4.56	0.000	
OF16-	OUTFALL	0.000	0.254	0	09:06	0	1.22	0.000	
OF17-	OUTFALL	0.240	1.696	0	09:07	0.344	5.3	0.000	
OF18-M	OUTFALL	0.121	0.121	0	09:05	0.174	0.174	0.000	
OF19-	OUTFALL	0.371	0.503	0	09:05	0.53	1.33	0.000	
OF1-M	OUTFALL	0.000	0.720	0	09:20	0	2.7	0.000	
OF20-	OUTFALL	0.000	0.543	0	09:13	0	4.44	0.000	
OF21-	OUTFALL	1.108	1.108	0	09:05	1.59	1.59	0.000	
OF22_M	OUTFALL	0.000	0.651	0	09:23	0	0.732	0.000	
OF23-	OUTFALL	2.261	2.261	0	09:05	3.24	3.24	0.000	
OF24-	OUTFALL	3.561	4.536	0	09:07	8.45	14.1	0.000	
OF25-	OUTFALL	0.000	0.524	0	09:14	0	4.14	0.000	
OF26-M	OUTFALL	0.364	1.750	0	09:09	0.521	3.97	0.000	
OF27-1	OUTFALL	0.544	0.544	0	09:05	0.779	2.96	0.000	
OF27-M	OUTFALL	1.216	1.237	0	09:05	1.74	2.39	0.000	
OF28-	OUTFALL	1.714	1.714	0	09:05	2.56	2.56	0.000	
OF29-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF2-M	OUTFALL	0.000	2.015	0	09:17	0	6.16	0.000	
OF2-M-	OUTFALL	0.000	0.234	0	09:07	0	0.433	0.000	
OF3-	OUTFALL	0.149	0.465	0	09:14	0.244	3.79	0.000	
OF30-M	OUTFALL	0.221	0.746	0	09:06	0.316	1.54	0.000	
OF31-M	OUTFALL	0.236	0.746	0	09:08	0.338	1.84	0.000	
OF32-M	OUTFALL	0.000	4.069	0	09:07	0	7.68	0.000	
OF33-	OUTFALL	0.000	0.579	0	09:09	0	4.36	0.000	
OF34-	OUTFALL	4.039	4.039	0	09:05	7.31	7.31	0.000	
OF35-	OUTFALL	0.553	0.553	0	09:15	1.88	1.88	0.000	
OF36-	OUTFALL	0.938	0.938	0	09:05	2.9	2.9	0.000	
OF37-	OUTFALL	2.222	2.222	0	09:20	8.97	8.97	0.000	
OF38-	OUTFALL	1.307	1.307	0	09:15	4.45	4.45	0.000	
OF39-	OUTFALL	2.562	2.562	0	09:05	4.46	4.46	0.000	
OF3-M	OUTFALL	0.000	0.875	0	09:06	0	1.4	0.000	
OF40-	OUTFALL	2.104	2.104	0	09:05	3.67	3.67	0.000	

OF41-	OUTFALL	1.754	1.754	0	09:05	3.06	3.06	0.000	
OF42-	OUTFALL	4.525	4.525	0	09:05	8.19	8.19	0.000	
OF43-	OUTFALL	7.009	7.009	0	09:05	12.7	12.7	0.000	
OF44-	OUTFALL	6.021	6.021	0	09:05	10.9	10.9	0.000	
OF45-	OUTFALL	5.912	5.912	0	09:05	10.7	10.7	0.000	
OF46-	OUTFALL	8.871	8.871	0	09:05	16.1	16.1	0.000	
OF47-	OUTFALL	9.668	9.668	0	09:05	17.5	17.5	0.000	
OF48-	OUTFALL	3.791	3.791	0	09:20	15.3	15.3	0.000	
OF49-	OUTFALL	4.599	4.599	0	09:05	8.32	8.32	0.000	
OF4-M	OUTFALL	0.390	0.802	0	09:05	0.558	1.29	0.000	
OF50	OUTFALL	3.394	3.394	0	09:05	6.14	6.14	0.000	
OF51	OUTFALL	3.195	3.195	0	09:05	5.57	5.57	0.000	
OF52	OUTFALL	3.923	3.923	0	09:05	6.84	6.84	0.000	
OF53	OUTFALL	7.213	7.213	0	09:05	13.1	13.1	0.000	
OF54	OUTFALL	6.016	6.016	0	09:05	10.9	10.9	0.000	
OF55	OUTFALL	1.969	1.969	0	09:05	3.43	3.43	0.000	
OF56	OUTFALL	5.491	5.491	0	09:05	9.57	9.57	0.000	
OF57	OUTFALL	2.068	2.068	0	09:05	3.6	3.6	0.000	
OF58	OUTFALL	6.957	6.957	0	09:05	19.3	19.3	0.000	
OF59	OUTFALL	2.520	2.520	0	09:05	3.92	3.92	0.000	
OF5-M	OUTFALL	0.918	0.960	0	09:05	1.31	1.53	0.000	
OF6-	OUTFALL	0.318	0.410	0	09:05	0.455	1.16	0.000	
OF60	OUTFALL	6.514	6.514	0	09:05	14.9	14.9	0.000	
OF61	OUTFALL	1.258	1.258	0	09:20	5.08	5.08	0.000	
OF7-M	OUTFALL	0.000	1.868	0	09:08	0	4.73	0.000	
OF8-	OUTFALL	0.000	0.000	0	00:00	0	0	0.000	ltr
OF9-M	OUTFALL	0.410	3.321	0	09:06	0.587	6.14	0.000	
Gill_RD_Pond	STORAGE	0.312	1.045	0	09:05	0.446	2.76	3.386	
Rice_Pond	STORAGE	0.181	2.598	0	09:14	0.425	11.8	0.009	
SCU1	STORAGE	0.690	0.690	0	09:05	1.08	1.08	0.000	
SCU2	STORAGE	0.761	0.761	0	09:05	1.62	1.62	0.000	
SCU3	STORAGE	0.000	0.000	0	00:00	0	0	0.000	ltr

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Node Surcharge Summary
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Surcharging occurs when water rises above the top of the highest conduit.

	Max. Height	Min. Depth

Node	Type	Hours Surcharged	Above Crown Meters	Below Rim Meters
CB15	JUNCTION	0.27	0.663	0.437
CB17	JUNCTION	0.29	0.747	1.738
CB19	JUNCTION	0.21	1.200	0.000
CB20	JUNCTION	0.26	1.359	0.061
CB21	JUNCTION	0.07	0.131	2.059
CB30_1	JUNCTION	0.84	1.270	0.000
CB31	JUNCTION	0.94	0.830	0.000
CB32	JUNCTION	1.00	0.920	0.000
CB33	JUNCTION	1.04	1.090	0.000
CB41	JUNCTION	1.07	0.550	0.000
CB42	JUNCTION	1.12	0.780	0.000
CB-58	JUNCTION	0.60	0.933	0.322
CBMH_41	JUNCTION	1.55	0.068	1.585
CBMH_44	JUNCTION	2.70	0.188	1.385
CBMH_46	JUNCTION	1.81	0.090	1.115
CBMH_62	JUNCTION	1.69	0.480	0.685
CBMH1	JUNCTION	0.01	1.150	0.000
DICBMH42	JUNCTION	14.93	0.248	1.377
J101	JUNCTION	1.51	0.812	0.113
J105	JUNCTION	1.04	1.222	0.000
J106	JUNCTION	1.27	0.802	0.000
J110	JUNCTION	1.56	1.145	0.000
J113	JUNCTION	1.48	1.000	0.000
J49	JUNCTION	1.19	0.863	0.957
J93	JUNCTION	0.14	0.480	0.000
J95	JUNCTION	0.09	0.390	0.000
J98	JUNCTION	0.55	0.590	0.000
MH_17	JUNCTION	2.58	0.174	1.942
MH_38	JUNCTION	2.98	0.223	1.974
MH_39	JUNCTION	4.25	0.410	1.555
MH_45	JUNCTION	2.77	0.196	1.115
MH_47	JUNCTION	2.85	0.207	1.408
MH_57	JUNCTION	1.31	0.346	0.554
MH_58	JUNCTION	1.59	0.488	0.603
MH_59	JUNCTION	1.43	0.732	0.000
MH_61	JUNCTION	1.24	0.583	0.374
MH_63	JUNCTION	2.17	0.500	0.837
MH_64	JUNCTION	3.64	1.167	0.561

MH_65	JUNCTION	5.35	0.566	1.374
MH_66	JUNCTION	5.80	0.625	1.311
MH_67	JUNCTION	6.00	0.676	1.143
MH_68	JUNCTION	7.38	0.816	0.451
MH1	JUNCTION	0.52	1.436	1.154
MH1_Main	JUNCTION	0.85	1.361	0.109
MH11	JUNCTION	0.14	0.357	1.833
MH11__S	JUNCTION	0.61	0.610	1.040
MH12	JUNCTION	0.10	0.322	1.248
MH13_Main	JUNCTION	0.80	1.232	0.000
MH13_Main_	JUNCTION	1.09	0.768	0.499
MH14	JUNCTION	0.10	0.099	4.236
MH14_Main	JUNCTION	1.24	1.341	0.190
MH15	JUNCTION	0.25	0.323	4.522
MH15_Main	JUNCTION	1.30	0.983	0.967
MH2	JUNCTION	0.24	1.133	1.217
MH2_Main	JUNCTION	0.94	1.067	0.003
MH21	JUNCTION	0.80	1.281	0.324
MH22	JUNCTION	0.81	1.165	0.270
MH23	JUNCTION	0.85	1.103	0.262
MH24	JUNCTION	0.75	0.910	0.445
MH25-1	JUNCTION	0.19	0.021	1.844
MH3	JUNCTION	0.23	1.470	1.100
MH30	JUNCTION	0.14	0.816	1.478
MH31	JUNCTION	0.15	0.776	1.768
MH32	JUNCTION	0.19	0.804	1.476
MH33	JUNCTION	0.20	0.778	1.558
MH4_Main	JUNCTION	1.01	1.370	0.000
MH40	JUNCTION	0.20	0.340	2.323
MH41	JUNCTION	0.13	0.095	2.557
MH5	JUNCTION	0.43	2.250	0.000
MH5_Main	JUNCTION	1.36	1.530	0.000
MH6	JUNCTION	0.04	1.058	1.242
MH6_Main	JUNCTION	2.07	1.277	1.303
MH7	JUNCTION	0.48	0.946	0.634
MH8_Main	JUNCTION	1.16	1.239	0.000
MH9_Main	JUNCTION	1.15	1.479	0.000

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Node Flooding Summary

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Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CMS	Time of Max Occurrence days hr:min	Total Flood Volume 10^6 ltr	Maximum Ponded Depth Meters
CB19	0.08	0.081	0 09:05	0.012	0.000
CB30_1	0.01	0.067	0 09:14	0.000	0.000
CB31	0.77	0.051	0 09:23	0.132	0.000
CB32	0.67	0.077	0 09:23	0.121	0.000
CB33	0.61	0.220	0 09:23	0.293	0.000
CB41	0.89	0.064	0 09:19	0.149	0.000
CB42	0.08	0.057	0 09:12	0.000	0.000
CBMH1	0.01	0.020	0 09:05	0.000	0.000
J105	0.01	0.008	0 09:09	0.000	0.000
J106	0.01	0.013	0 09:06	0.000	0.000
J110	0.01	0.004	0 09:05	0.000	0.000
J113	0.01	0.002	0 09:05	0.000	0.000
J93	0.01	0.004	0 09:09	0.000	0.000
J95	0.01	0.002	0 09:09	0.000	0.000
J98	0.13	0.027	0 09:07	0.003	0.000
MH_59	0.92	0.046	0 09:26	0.100	0.000
MH13_Main	0.01	0.030	0 09:13	0.000	0.000
MH4_Main	0.01	0.048	0 09:13	0.000	0.000
MH5	0.01	0.058	0 09:20	0.000	0.000
MH5_Main	0.01	0.096	0 09:11	0.000	0.000
MH8_Main	0.05	0.042	0 09:13	0.002	0.000
MH9_Main	0.01	0.071	0 09:15	0.001	0.000
SCU2	0.21	0.092	0 09:21	0.032	0.000

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Storage Volume Summary
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	Average Volume	Avg Pcnt	Evap Pcnt	Exfil Pcnt	Maximum Volume	Max Pcnt	Time of Max Occurrence	Maximum Outflow

Storage Unit	1000 m3	Full	Loss	Loss	1000 m3	Full	days	hr:min	CMS
Gill_RD_Pond	0.610	21	0	0	1.411	48	0	10:05	0.133
Rice_Pond	4.495	32	0	0	7.741	56	0	11:05	0.297
SCU1	0.042	8	0	0	0.393	79	0	09:23	0.177
SCU2	0.079	16	0	0	0.500	100	0	09:21	0.194
SCU3	0.000	0	0	0	0.000	0	0	00:00	0.000

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Outfall Loading Summary
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Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
OF1	89.55	0.028	0.357	0.965
OF10-	99.91	0.036	1.111	1.590
OF11-M	0.00	0.000	0.000	0.000
OF12-	64.14	0.024	0.317	0.562
OF13-1	93.05	0.057	0.851	2.041
OF13-2	92.41	0.023	0.268	0.895
OF14-	99.97	0.156	0.514	9.011
OF15-	99.97	0.102	3.188	4.563
OF16-	99.69	0.027	0.254	1.220
OF17-	99.76	0.122	1.696	5.298
OF18-M	99.46	0.004	0.121	0.174
OF19-	99.80	0.027	0.503	1.329
OF1-M	91.92	0.071	0.720	2.702
OF20-	99.58	0.101	0.543	4.437
OF21-	99.91	0.036	1.108	1.586
OF22_M	7.75	0.260	0.651	0.732
OF23-	99.95	0.073	2.261	3.236
OF24-	99.97	0.355	4.536	14.149
OF25-	93.17	0.102	0.524	4.143
OF26-M	99.80	0.099	1.750	3.973
OF27-1	99.83	0.060	0.544	2.962
OF27-M	99.92	0.056	1.237	2.386
OF28-	99.95	0.058	1.714	2.563

OF29-	0.00	0.000	0.000	0.000
OF2-M	96.90	0.153	2.015	6.162
OF2-M-	96.52	0.011	0.234	0.433
OF3-	99.75	0.078	0.465	3.793
OF30-M	99.69	0.036	0.746	1.544
OF31-M	99.71	0.044	0.746	1.843
OF32-M	99.30	0.182	4.069	7.680
OF33-	99.57	0.098	0.579	4.359
OF34-	99.94	0.163	4.039	7.312
OF35-	22.04	0.222	0.553	1.881
OF36-	99.93	0.070	0.938	2.900
OF37-	24.63	0.939	2.222	8.974
OF38-	22.04	0.526	1.307	4.445
OF39-	99.93	0.100	2.562	4.465
OF3-M	93.44	0.037	0.875	1.398
OF40-	99.92	0.082	2.104	3.667
OF41-	99.90	0.068	1.754	3.057
OF42-	99.95	0.182	4.525	8.191
OF43-	99.96	0.282	7.009	12.687
OF44-	99.96	0.243	6.021	10.898
OF45-	99.96	0.238	5.912	10.702
OF46-	99.97	0.357	8.871	16.057
OF47-	99.97	0.389	9.668	17.499
OF48-	24.64	1.602	3.791	15.315
OF49-	99.95	0.185	4.599	8.324
OF4-M	99.79	0.030	0.802	1.290
OF50	99.93	0.137	3.394	6.144
OF51	99.95	0.124	3.195	5.569
OF52	99.95	0.153	3.923	6.838
OF53	99.96	0.291	7.213	13.057
OF54	99.96	0.242	6.016	10.890
OF55	99.91	0.077	1.969	3.432
OF56	99.97	0.214	5.491	9.569
OF57	99.92	0.081	2.068	3.604
OF58	99.98	0.461	6.957	19.265
OF59	99.96	0.089	2.520	3.922
OF5-M	99.89	0.035	0.960	1.532
OF6-	99.78	0.025	0.410	1.158
OF60	99.98	0.348	6.514	14.947
OF61	24.63	0.532	1.258	5.083
OF7-M	96.64	0.120	1.868	4.734

OF8-	0.00	0.000	0.000	0.000
OF9-M	99.80	0.145	3.321	6.139
System	86.77	11.267	146.403	351.275

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Link Flow Summary
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Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
C_dummy	CONDUIT	0.720	0 09:20	3.70	0.09	0.40
C1	CONDUIT	0.579	0 09:09	2.37	0.44	0.47
C10	CHANNEL	0.175	0 09:08	0.31	0.04	0.22
C100	CONDUIT	0.702	0 09:10	1.88	1.01	1.00
C106	CONDUIT	0.232	0 09:08	1.47	0.38	1.00
C108	CONDUIT	0.001	0 10:01	0.04	0.01	0.78
C11	CHANNEL	0.593	0 09:09	0.54	0.04	0.36
C110	CONDUIT	0.003	0 09:45	0.09	0.04	1.00
C111	CONDUIT	0.006	0 09:36	0.13	0.07	1.00
C113	CONDUIT	0.002	0 09:45	0.11	0.05	1.00
C114	CONDUIT	0.000	0 10:23	0.03	0.01	0.54
C115	CONDUIT	0.000	0 00:00	0.00	0.00	0.14
C116	CONDUIT	0.009	0 09:36	0.11	0.07	1.00
C118	CONDUIT	0.006	0 09:23	0.10	0.03	1.00
C119_1	CONDUIT	0.011	0 09:35	0.10	0.01	1.00
C119_2	CONDUIT	0.699	0 09:10	1.81	0.90	1.00
C12	CHANNEL	0.185	0 09:06	0.48	0.02	0.17
C123	CONDUIT	0.353	0 09:17	2.27	2.09	1.00
C124	CONDUIT	0.353	0 09:17	2.22	2.92	1.00
C125	CONDUIT	1.144	0 09:13	2.59	0.76	1.00
C126	CONDUIT	1.144	0 09:13	2.37	1.06	1.00
C127	CONDUIT	0.297	0 11:05	2.04	0.73	0.64
C128	CONDUIT	0.297	0 11:06	1.95	0.78	0.66
C129	CONDUIT	0.297	0 11:06	1.96	0.77	0.66
C13	CHANNEL	0.366	0 09:05	0.46	0.03	0.30
C130	CONDUIT	0.172	0 09:23	1.23	1.04	1.00

C14	CHANNEL	1.518	0	09:08	0.64	0.02	0.18
C145	CONDUIT	0.039	0	09:22	0.99	0.60	0.87
C147	CONDUIT	0.039	0	09:22	1.11	0.48	1.00
C15	CHANNEL	0.505	0	09:05	0.63	0.03	0.29
C150	CONDUIT	0.039	0	09:22	0.94	0.56	1.00
C151	CONDUIT	0.153	0	09:11	1.46	1.15	1.00
C156	CONDUIT	0.156	0	09:11	1.45	1.17	1.00
C159	CONDUIT	0.158	0	09:10	2.24	1.96	1.00
C16	CHANNEL	0.350	0	09:05	0.51	0.02	0.25
C160	CONDUIT	0.020	0	09:05	0.32	0.29	1.00
C161	CONDUIT	0.013	0	09:09	0.26	0.19	1.00
C164	CONDUIT	0.254	0	09:06	4.08	0.36	0.41
C165	CONDUIT	0.057	0	09:05	1.18	0.34	0.45
C167	CONDUIT	0.389	0	09:10	1.80	1.63	1.00
C17	CHANNEL	0.950	0	09:07	0.48	0.01	0.16
C18	CHANNEL	0.421	0	09:05	0.59	0.03	0.26
C185	CONDUIT	0.147	0	09:19	1.01	0.79	1.00
C186	CONDUIT	0.155	0	09:20	0.92	0.80	1.00
C187	CONDUIT	0.270	0	09:10	1.25	1.25	1.00
C188	CONDUIT	0.272	0	09:10	1.26	1.26	1.00
C189	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C19	CHANNEL	0.433	0	09:12	0.38	0.01	0.12
C190	CONDUIT	0.000	0	00:00	0.00	0.00	0.12
C193	CONDUIT	0.010	0	09:12	0.27	0.09	0.46
C194	CONDUIT	0.031	0	09:11	0.40	0.28	0.87
C2	CONDUIT	0.231	0	09:09	1.09	0.46	1.00
C20	CHANNEL	0.335	0	09:05	0.67	0.03	0.20
C200-	CONDUIT	0.510	0	09:14	1.94	1.07	1.00
C205	CONDUIT	0.106	0	09:08	1.22	0.68	0.70
C206	CONDUIT	0.105	0	09:09	1.17	0.77	0.89
C207	CONDUIT	0.102	0	09:09	1.00	0.69	1.00
C21	CHANNEL	0.067	0	09:06	0.21	0.00	0.10
C211	CONDUIT	0.133	0	10:05	0.37	0.03	0.64
C212	CONDUIT	0.133	0	10:05	1.03	0.21	0.29
C213	CONDUIT	0.133	0	10:06	1.08	0.21	0.28
C22	CHANNEL	0.325	0	09:14	0.35	0.00	0.12
C228	CONDUIT	0.082	0	09:10	1.16	0.70	1.00
C229	CONDUIT	0.000	0	00:00	0.00	0.00	0.10
C23	CHANNEL	0.140	0	09:14	0.22	0.00	0.09
C230	CONDUIT	0.091	0	09:14	1.39	0.70	1.00
C231	CONDUIT	0.220	0	09:23	3.12	3.58	1.00

C232	CONDUIT	0.051	0	09:23	0.72	0.53	1.00
C233	CONDUIT	0.128	0	09:23	1.81	1.77	1.00
C234	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C235	CONDUIT	0.000	0	00:00	0.00	0.00	0.49
C239	CONDUIT	0.106	0	09:11	1.66	0.95	1.00
C24	CONDUIT	0.048	0	09:08	1.64	0.06	0.19
C240	CONDUIT	0.064	0	09:19	1.31	0.39	1.00
C244	CONDUIT	0.017	0	09:11	0.24	0.12	1.00
C245	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C246	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C248	CONDUIT	1.518	0	09:08	2.84	1.67	1.00
C25	CHANNEL	0.177	0	09:07	0.38	0.00	0.07
C250	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C251	CONDUIT	0.040	0	09:05	1.32	0.41	0.45
C252	CONDUIT	0.116	0	09:03	1.64	1.00	1.00
C253	CONDUIT	0.286	0	09:03	4.06	3.16	1.00
C254	CONDUIT	0.283	0	09:05	4.18	1.09	1.00
C255	CONDUIT	0.017	0	09:05	0.34	0.06	1.00
C256	CONDUIT	0.181	0	09:05	1.84	0.91	1.00
C257	CONDUIT	0.000	0	00:00	0.00	0.00	0.05
C258	CONDUIT	0.259	0	09:05	3.66	5.77	1.00
C259	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C26	CONDUIT	0.028	0	09:15	0.75	0.13	0.29
C260	CONDUIT	0.083	0	09:05	1.27	1.31	0.88
C263	CONDUIT	0.000	0	00:00	0.00	0.00	0.05
C269	CONDUIT	0.013	0	09:05	1.39	0.04	0.14
C27	CONDUIT	0.027	0	09:08	1.07	0.17	0.28
C28	CONDUIT	0.164	0	09:09	1.42	0.33	0.43
C281	CONDUIT	0.087	0	09:05	1.23	1.33	1.00
C284	CONDUIT	0.110	0	09:18	1.55	1.93	1.00
C285	CONDUIT	0.026	0	09:05	0.42	0.45	1.00
C288	CONDUIT	0.041	0	09:14	1.02	0.66	0.56
C289	CONDUIT	0.041	0	09:15	1.17	0.16	0.27
C29	CHANNEL	0.115	0	09:11	0.34	0.00	0.06
C292	CONDUIT	0.041	0	09:15	0.99	0.21	0.31
C293	CONDUIT	0.041	0	09:15	1.26	0.15	0.26
C3	CONDUIT	0.164	0	09:11	1.23	0.32	1.00
C30	CHANNEL	0.015	0	09:11	0.05	0.00	0.07
C31	CHANNEL	0.036	0	09:06	0.07	0.00	0.08
C32	CHANNEL	0.023	0	09:06	0.09	0.00	0.05
C33	CHANNEL	0.019	0	09:06	0.05	0.00	0.07

C34	CHANNEL	0.156	0	09:09	0.28	0.00	0.08
C343	CONDUIT	0.151	0	09:09	1.37	2.31	1.00
C344	CONDUIT	0.562	0	09:14	1.57	1.56	1.00
C345	CONDUIT	1.193	0	09:14	2.23	1.71	1.00
C346	CONDUIT	1.203	0	09:15	3.45	1.20	0.62
C347	CONDUIT	1.207	0	09:15	5.57	0.38	0.43
C348	CONDUIT	0.542	0	09:12	4.60	0.61	0.73
C349	CONDUIT	0.287	0	09:06	3.10	0.66	0.57
C35	CHANNEL	0.093	0	09:06	0.15	0.00	0.09
C350	CONDUIT	0.149	0	09:10	1.54	1.28	0.83
C351	CONDUIT	0.000	0	00:00	0.00	0.00	0.27
C352	CONDUIT	0.105	0	09:09	1.59	0.63	0.58
C353	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C36	CHANNEL	0.151	0	09:11	0.21	0.00	0.09
C37	CHANNEL	0.088	0	09:06	0.16	0.00	0.15
C38	CONDUIT	0.000	0	00:00	0.00	0.00	0.11
C39	CHANNEL	0.071	0	09:24	0.09	0.00	0.16
C4	CONDUIT	0.175	0	09:10	1.31	1.08	1.00
C40	CONDUIT	0.028	0	09:14	0.99	0.11	0.23
C41	CHANNEL	0.114	0	09:13	0.11	0.00	0.16
C42	CHANNEL	0.268	0	09:10	0.66	0.00	0.07
C43	CONDUIT	0.028	0	09:06	1.01	0.36	0.42
C437	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C44	CONDUIT	0.357	0	09:18	1.33	0.12	0.35
C47	CONDUIT	0.028	0	09:06	1.21	0.46	0.48
C48	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C5	CONDUIT	0.440	0	09:05	0.80	0.03	0.59
C50	CONDUIT	0.000	0	00:00	0.00	0.00	0.28
C53	CONDUIT	0.047	0	09:08	0.71	0.08	0.53
C54	CONDUIT	0.060	0	09:07	1.02	0.23	0.77
C6	CONDUIT	0.095	0	09:11	0.62	0.07	0.36
C60	CONDUIT	0.048	0	09:07	1.36	0.24	0.27
C63	CONDUIT	0.048	0	09:07	1.31	0.29	0.37
C65	CONDUIT	0.028	0	09:06	0.98	0.37	0.44
C653	CONDUIT	1.489	0	09:08	3.37	2.12	1.00
C655	CONDUIT	0.362	0	09:05	1.49	1.05	1.00
C656	CONDUIT	0.324	0	09:05	1.27	1.41	1.00
C657	CONDUIT	0.022	0	09:08	0.96	0.03	0.14
C658	CONDUIT	1.518	0	09:08	2.84	1.69	1.00
C660	CONDUIT	0.335	0	09:22	2.12	1.51	1.00
C662	CONDUIT	0.333	0	09:16	2.49	11.21	0.79

C663	CONDUIT	0.314	0	09:24	1.97	1.13	1.00
C664	CONDUIT	0.326	0	09:15	2.05	1.29	1.00
C665	CONDUIT	0.027	0	09:14	0.66	0.10	0.60
C666	CONDUIT	1.530	0	09:08	2.93	1.31	0.94
C667	CONDUIT	0.094	0	09:11	1.04	0.24	0.36
C668	CONDUIT	0.206	0	09:10	6.47	0.03	0.12
C669	CONDUIT	0.206	0	09:10	3.68	0.06	0.16
C670	CONDUIT	0.007	0	09:05	0.11	0.02	0.34
C671	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C672	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C673	CONDUIT	0.088	0	09:09	1.18	0.49	1.00
C674	CONDUIT	0.524	0	09:14	5.09	0.70	0.62
C68	CONDUIT	0.021	0	09:06	0.93	0.26	0.35
C685	CONDUIT	0.000	0	00:00	0.00	0.00	0.05
C686	CONDUIT	0.048	0	09:07	1.92	0.17	0.28
C687	CONDUIT	0.048	0	09:07	2.51	0.12	0.23
C688	CONDUIT	0.048	0	09:08	1.49	0.10	0.21
C689	CONDUIT	0.318	0	09:07	1.55	0.72	0.56
C69	CONDUIT	0.021	0	09:06	0.96	0.27	0.35
C690	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C7	CONDUIT	0.093	0	09:13	1.94	0.02	0.20
C70	CONDUIT	0.021	0	09:05	1.05	0.41	0.44
C700	CONDUIT	0.373	0	09:15	2.34	1.65	1.00
C701	CONDUIT	0.384	0	09:14	2.46	1.12	0.69
C702	CONDUIT	0.384	0	09:14	4.06	0.63	0.57
C703	CONDUIT	0.000	0	00:00	0.00	0.00	0.05
C704	CONDUIT	0.018	0	09:05	0.14	0.06	0.50
C705	CONDUIT	0.095	0	09:09	0.92	0.46	0.39
C707	CONDUIT	0.094	0	09:11	0.95	0.38	0.38
C708	CONDUIT	0.206	0	09:10	1.52	0.48	0.49
C709	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C710	CONDUIT	0.055	0	09:10	1.67	0.65	1.00
C711	CONDUIT	0.055	0	09:09	1.24	0.85	1.00
C712	CONDUIT	0.209	0	09:15	1.89	1.09	1.00
C713	CONDUIT	0.045	0	09:10	0.92	0.97	1.00
C714	CONDUIT	0.304	0	09:09	1.08	1.26	1.00
C715	CONDUIT	1.201	0	09:14	2.37	1.88	0.90
C716	CONDUIT	0.960	0	09:10	2.29	1.02	1.00
C717	CONDUIT	0.395	0	09:12	1.58	0.97	1.00
C718	CONDUIT	0.012	0	09:05	0.16	0.16	1.00
C727	CONDUIT	0.047	0	09:09	1.43	0.10	0.21

C73	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C734	CONDUIT	0.317	0	09:06	1.53	0.79	0.56
C735	CONDUIT	0.317	0	09:06	1.45	0.84	0.59
C736	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C737	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C738	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C739	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C740	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C741	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C751	CONDUIT	0.360	0	09:18	2.68	0.59	0.79
C752	CONDUIT	0.290	0	09:52	1.82	1.36	1.00
C753	CONDUIT	0.296	0	09:24	1.98	1.09	1.00
C754	CONDUIT	0.073	0	09:14	1.17	0.78	1.00
C755	CONDUIT	0.084	0	09:10	0.53	0.78	1.00
C756	CONDUIT	0.086	0	09:09	1.02	0.74	1.00
C757	CONDUIT	1.113	0	09:09	2.52	1.55	1.00
C758	CONDUIT	0.317	0	09:15	1.69	0.53	0.52
C759	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C76	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C760	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C762	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
C763	CONDUIT	0.543	0	09:13	3.86	1.01	0.95
C764	CONDUIT	1.201	0	09:14	2.25	1.69	1.00
C765	CONDUIT	0.005	0	09:15	0.33	0.15	1.00
C766	CONDUIT	0.006	0	09:06	0.25	0.35	1.00
C767	CONDUIT	1.518	0	09:08	2.84	1.74	1.00
C77	CONDUIT	0.061	0	09:06	1.04	0.24	0.43
C8	CONDUIT	1.312	0	09:15	3.95	0.16	0.41
C80	CONDUIT	0.061	0	09:06	1.12	0.30	0.38
C9	CHANNEL	0.666	0	09:16	0.24	0.01	0.31
C94	CONDUIT	0.164	0	09:10	1.46	0.41	0.78
CB72	CONDUIT	0.466	0	09:13	2.22	1.14	0.93
MC_C6	CHANNEL	0.000	0	00:00	0.00	0.00	0.11
MC1	CHANNEL	0.649	0	09:15	0.29	0.03	0.18
MC10	CHANNEL	0.234	0	09:07	0.44	0.00	0.08
MC100	CHANNEL	0.215	0	09:07	0.32	0.01	0.09
MC101	CHANNEL	0.119	0	09:08	0.11	0.00	0.20
MC102	CHANNEL	0.138	0	09:06	0.27	0.00	0.08
MC103	CHANNEL	0.128	0	09:06	0.13	0.00	0.14
MC104	CHANNEL	0.693	0	09:11	0.49	0.01	0.13
MC105	CHANNEL	0.382	0	09:09	0.19	0.01	0.17

MC107	CHANNEL	0.145	0	09:05	0.61	0.00	0.05
MC108	CHANNEL	0.053	0	09:06	0.36	0.00	0.04
MC109	CHANNEL	0.085	0	09:05	0.36	0.00	0.05
MC11	CHANNEL	0.077	0	09:07	0.24	0.00	0.06
MC12	CHANNEL	0.073	0	09:07	0.19	0.00	0.07
MC120	CHANNEL	0.206	0	09:07	0.18	0.01	0.37
MC121	CHANNEL	0.054	0	09:07	0.05	0.00	0.12
MC122	CHANNEL	0.051	0	09:07	0.11	0.00	0.08
MC123	CHANNEL	0.347	0	09:06	1.21	0.02	0.15
MC124	CHANNEL	0.117	0	09:06	0.32	0.00	0.06
MC125	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC126	CHANNEL	0.729	0	09:10	0.35	0.01	0.17
MC128	CHANNEL	0.024	0	09:09	0.06	0.00	0.24
MC129	CHANNEL	0.028	0	09:07	0.14	0.00	0.04
MC13	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC130	CHANNEL	0.046	0	09:09	0.01	0.00	0.32
MC131	CHANNEL	0.556	0	09:09	1.64	0.02	0.16
MC132	CHANNEL	0.407	0	09:08	0.56	0.04	0.29
MC133	CHANNEL	0.235	0	09:08	0.49	0.00	0.07
MC135	CHANNEL	0.046	0	09:05	0.17	0.00	0.07
MC136	CHANNEL	0.448	0	09:14	0.41	0.01	0.12
MC137	CHANNEL	0.123	0	09:33	0.17	0.00	0.10
MC139	CHANNEL	0.314	0	09:09	0.15	0.02	0.17
MC14	CHANNEL	0.996	0	09:06	0.60	0.01	0.15
MC141	CHANNEL	0.435	0	09:06	0.48	0.00	0.11
MC142	CHANNEL	0.186	0	09:06	0.27	0.00	0.10
MC143	CHANNEL	0.284	0	09:09	0.89	0.01	0.15
MC144	CHANNEL	0.305	0	09:09	0.92	0.01	0.17
MC145	CHANNEL	2.991	0	09:07	2.88	0.11	0.33
MC146	CHANNEL	0.377	0	09:06	0.11	0.00	0.36
MC147	CHANNEL	0.211	0	09:10	0.24	0.00	0.15
MC148	CHANNEL	0.405	0	09:06	0.20	0.02	0.59
MC149	CHANNEL	0.000	0	00:00	0.00	0.00	0.24
MC15	CHANNEL	0.133	0	09:08	0.15	0.00	0.10
MC150	CHANNEL	0.320	0	09:14	0.10	0.00	0.25
MC151	CHANNEL	0.055	0	09:09	0.10	0.00	0.08
MC152	CHANNEL	0.059	0	09:06	0.19	0.00	0.06
MC153	CHANNEL	0.121	0	09:06	0.12	0.00	0.16
MC154	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC155	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC156	CHANNEL	0.065	0	09:09	0.07	0.00	0.12

MC157	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC158	CHANNEL	0.000	0	00:00	0.00	0.00	0.06
MC159	CHANNEL	0.541	0	09:14	0.46	0.01	0.13
MC16	CHANNEL	0.235	0	09:07	0.21	0.00	0.12
MC160	CHANNEL	0.054	0	09:12	0.06	0.00	0.25
MC161	CHANNEL	0.042	0	09:12	0.13	0.00	0.07
MC162	CHANNEL	0.014	0	09:10	0.02	0.00	0.17
MC163	CHANNEL	0.014	0	09:10	0.05	0.00	0.06
MC164	CHANNEL	0.005	0	09:08	0.04	0.00	0.11
MC165	CHANNEL	0.904	0	09:07	0.59	0.11	0.74
MC166	CHANNEL	0.008	0	09:08	0.09	0.00	0.10
MC167	CHANNEL	0.006	0	09:08	0.01	0.00	0.20
MC168	CHANNEL	1.023	0	09:08	0.22	0.03	0.39
MC169	CONDUIT	1.552	0	09:09	3.50	0.03	0.15
MC17	CHANNEL	0.225	0	09:07	0.23	0.00	0.11
MC170	CHANNEL	0.085	0	09:29	0.04	0.00	0.18
MC171	CHANNEL	0.316	0	09:05	0.64	0.00	0.08
MC172	CHANNEL	1.256	0	09:07	1.46	0.06	0.29
MC173	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC174	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC175	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC176	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC177	CHANNEL	0.985	0	09:08	0.56	0.02	0.15
MC178	CHANNEL	0.380	0	09:06	0.31	0.00	0.17
MC179	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC18	CHANNEL	0.019	0	09:07	0.06	0.00	0.06
MC180	CHANNEL	0.000	0	00:00	0.00	0.00	0.17
MC181	CHANNEL	0.218	0	09:06	0.26	0.00	0.17
MC182_1	CHANNEL	0.453	0	09:07	0.22	0.01	0.17
MC182_2	CHANNEL	0.398	0	09:10	0.52	0.00	0.10
MC182_3	CHANNEL	0.413	0	09:09	0.22	0.01	0.16
MC182_5	CHANNEL	0.623	0	09:08	0.45	0.00	0.13
MC183	CHANNEL	0.416	0	09:06	0.18	0.01	0.43
MC184	CHANNEL	0.959	0	09:06	0.54	0.01	0.19
MC185	CHANNEL	0.183	0	09:05	0.52	0.01	0.27
MC186	CHANNEL	0.254	0	09:05	0.91	0.01	0.15
MC187	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC188	CHANNEL	0.614	0	09:09	0.31	0.01	0.25
MC189	CHANNEL	0.200	0	09:07	0.27	0.01	0.49
MC19	CHANNEL	0.109	0	09:05	0.13	0.00	0.10
MC190	CHANNEL	0.070	0	09:07	0.07	0.01	0.34

MC191	CHANNEL	1.068	0	09:06	0.53	0.02	0.25
MC192	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC193	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC194_1	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC194_2	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC195	CHANNEL	0.019	0	09:07	0.05	0.00	0.07
MC196	CHANNEL	0.136	0	09:05	0.05	0.02	0.90
MC197	CHANNEL	0.377	0	09:03	0.22	0.04	0.72
MC198	CHANNEL	0.377	0	09:07	0.32	0.10	0.38
MC199	CHANNEL	0.447	0	09:08	0.64	0.04	0.27
MC2	CHANNEL	0.250	0	09:09	0.20	0.00	0.14
MC20	CHANNEL	0.247	0	09:08	0.27	0.01	0.11
MC200	CHANNEL	0.710	0	09:09	0.86	0.07	0.30
MC201	CHANNEL	0.389	0	09:09	1.12	0.03	0.46
MC202	CHANNEL	0.612	0	09:10	0.19	0.04	0.86
MC203	CHANNEL	0.065	0	09:09	0.08	0.00	0.13
MC204	CHANNEL	0.040	0	09:09	0.05	0.00	0.10
MC205	CHANNEL	0.651	0	09:23	0.76	0.00	0.10
MC206	CHANNEL	1.531	0	09:10	0.93	0.02	0.12
MC207_1	CHANNEL	1.546	0	09:09	0.93	0.02	0.12
MC207_3	CHANNEL	1.587	0	09:09	0.90	0.02	0.17
MC207_4	CHANNEL	1.906	0	09:09	0.51	0.02	0.30
MC208	CHANNEL	2.131	0	09:09	1.04	1.25	0.45
MC209	CHANNEL	0.000	0	00:00	0.00	0.00	0.11
MC21	CHANNEL	0.449	0	09:06	1.13	0.00	0.07
MC210	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC211	CHANNEL	0.000	0	00:00	0.00	0.00	0.00
MC212	CHANNEL	1.873	0	09:16	1.04	0.27	0.51
MC213	CHANNEL	0.967	0	09:16	0.86	0.11	0.35
MC214_1	CHANNEL	2.503	0	09:14	0.66	0.08	0.25
MC214_2	CHANNEL	1.124	0	09:14	0.94	0.20	0.38
MC215	CHANNEL	2.436	0	09:10	0.66	0.03	0.26
MC216	CHANNEL	0.341	0	09:09	0.19	0.00	0.16
MC217	CHANNEL	0.367	0	09:09	0.16	0.00	0.21
MC219	CHANNEL	0.811	0	09:11	0.46	0.01	0.21
MC22	CHANNEL	0.074	0	09:08	0.24	0.00	0.06
MC220	CHANNEL	0.634	0	09:08	0.26	0.04	0.71
MC221	CHANNEL	0.009	0	09:07	0.02	0.00	0.22
MC223	CHANNEL	0.010	0	09:07	0.16	0.00	0.06
MC224	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC225	CHANNEL	0.000	0	00:00	0.00	0.00	0.05

MC226	CHANNEL	0.709	0	09:11	0.35	0.01	0.17
MC227	CHANNEL	0.782	0	09:13	0.26	0.04	0.21
MC228	CHANNEL	0.232	0	09:10	0.17	0.01	0.13
MC229	CHANNEL	0.117	0	09:39	0.17	0.00	0.09
MC23	CHANNEL	0.360	0	09:07	0.62	0.04	0.22
MC230	CHANNEL	0.830	0	09:09	0.62	0.01	0.13
MC231	CHANNEL	0.253	0	09:05	0.15	0.02	0.59
MC232	CHANNEL	0.261	0	09:09	0.30	0.00	0.10
MC24	CHANNEL	4.069	0	09:07	1.37	0.03	0.21
MC25	CHANNEL	0.079	0	09:06	0.17	0.00	0.07
MC26	CHANNEL	0.026	0	09:06	0.05	0.00	0.08
MC27	CHANNEL	0.595	0	09:09	0.66	0.00	0.11
MC28	CHANNEL	2.015	0	09:17	1.22	0.01	0.15
MC29	CHANNEL	0.000	0	00:00	0.00	0.00	0.03
MC3	CHANNEL	1.868	0	09:08	0.97	0.02	0.16
MC30	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC31	CHANNEL	0.050	0	09:05	0.12	0.00	0.20
MC32	CHANNEL	0.305	0	09:08	0.32	0.01	0.11
MC33	CHANNEL	0.501	0	09:09	0.43	0.00	0.14
MC34	CHANNEL	0.205	0	09:08	0.48	0.00	0.07
MC35	CHANNEL	0.147	0	09:11	0.18	0.00	0.20
MC36	CHANNEL	0.152	0	09:09	0.18	0.01	0.10
MC37	CHANNEL	0.286	0	09:06	0.70	0.01	0.18
MC38	CHANNEL	1.886	0	09:17	0.95	0.02	0.16
MC39	CHANNEL	1.317	0	09:08	0.32	0.02	0.43
MC4	CHANNEL	0.000	0	00:00	0.00	0.00	0.05
MC40	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC41	CHANNEL	0.096	0	09:11	0.05	0.00	0.21
MC42	CHANNEL	0.000	0	00:00	0.00	0.00	0.07
MC43	CHANNEL	0.000	0	00:00	0.00	0.00	0.20
MC44	CHANNEL	0.022	0	09:16	0.04	0.00	0.09
MC45	CHANNEL	0.043	0	09:07	0.09	0.00	0.08
MC46	CHANNEL	0.062	0	09:06	0.09	0.00	0.10
MC47	CHANNEL	1.758	0	09:16	0.79	0.02	0.18
MC48	CHANNEL	0.000	0	00:00	0.00	0.00	0.33
MC49	CHANNEL	0.000	0	00:00	0.00	0.00	0.35
MC5	CHANNEL	0.153	0	09:05	0.32	0.00	0.07
MC50	CHANNEL	0.032	0	09:14	0.06	0.00	0.08
MC51	CHANNEL	0.029	0	09:06	0.07	0.00	0.07
MC52	CHANNEL	0.030	0	09:06	0.19	0.00	0.04
MC53	CHANNEL	0.047	0	09:07	0.08	0.00	0.11

MC54	CHANNEL	0.088	0	09:07	0.15	0.00	0.08
MC55	CHANNEL	0.030	0	09:11	0.04	0.00	0.19
MC56	CHANNEL	0.002	0	09:12	0.02	0.00	0.03
MC57	CHANNEL	0.043	0	09:11	0.06	0.00	0.09
MC58	CHANNEL	0.038	0	09:16	0.06	0.00	0.21
MC59	CHANNEL	0.057	0	09:07	0.13	0.00	0.07
MC6	CHANNEL	0.875	0	09:06	1.43	0.05	0.23
MC62	CHANNEL	0.000	0	00:00	0.00	0.00	0.22
MC64	CHANNEL	0.845	0	09:08	0.38	0.00	0.22
MC65	CHANNEL	0.007	0	09:07	0.02	0.00	0.09
MC66	CHANNEL	0.024	0	09:07	0.13	0.00	0.13
MC67	CHANNEL	0.009	0	09:07	0.01	0.00	0.34
MC68	CHANNEL	0.283	0	09:08	0.25	0.00	0.12
MC69	CHANNEL	0.187	0	09:11	0.13	0.00	0.30
MC7	CHANNEL	1.093	0	09:08	0.52	0.21	0.57
MC70	CHANNEL	0.390	0	09:07	0.56	0.00	0.09
MC71	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC72	CHANNEL	0.000	0	00:00	0.00	0.00	0.02
MC73	CHANNEL	1.709	0	09:15	0.87	0.01	0.16
MC74	CHANNEL	0.158	0	09:17	0.10	0.00	0.18
MC75	CHANNEL	1.577	0	09:13	0.68	0.03	0.18
MC76	CHANNEL	0.000	0	00:00	0.00	0.00	0.01
MC77	CHANNEL	0.050	0	09:06	0.12	0.00	0.07
MC78	CHANNEL	0.165	0	09:06	0.19	0.00	0.22
MC79	CHANNEL	0.150	0	09:08	0.28	0.00	0.08
MC8	CHANNEL	0.000	0	00:00	0.00	0.00	0.08
MC80	CHANNEL	0.778	0	09:09	0.47	0.52	0.47
MC82	CHANNEL	0.000	0	00:00	0.00	0.00	0.19
MC83	CHANNEL	0.000	0	00:00	0.00	0.00	0.19
MC84	CHANNEL	0.376	0	09:07	0.70	0.00	0.08
MC85	CHANNEL	0.085	0	09:07	0.09	0.00	0.11
MC86	CHANNEL	0.573	0	09:07	1.56	0.02	0.16
MC87	CHANNEL	0.271	0	09:07	0.16	0.00	0.21
MC89	CHANNEL	0.131	0	09:08	0.09	0.00	0.15
MC9	CHANNEL	0.000	0	00:00	0.00	0.00	0.04
MC90	CHANNEL	0.096	0	09:08	0.19	0.00	0.08
MC91	CHANNEL	0.094	0	09:11	0.21	0.00	0.07
MC92	CHANNEL	0.140	0	09:07	0.36	0.00	0.07
MC93	CHANNEL	0.084	0	09:07	0.30	0.00	0.05
MC97	CHANNEL	0.078	0	09:06	0.27	0.00	0.06
MC98	CHANNEL	0.144	0	09:07	0.50	0.00	0.06

MC99	CHANNEL	0.022	0	09:07	0.06	0.00	0.07
MJ-C5	CONDUIT	0.132	0	09:10	0.50	0.44	0.66
MJ-C6	CONDUIT	0.289	0	09:10	0.79	0.04	0.27
MJ-C7	CONDUIT	0.267	0	09:15	0.67	0.25	0.47
MJ-C8	CONDUIT	0.265	0	09:16	1.30	0.08	0.29
OL5	ORIFICE	0.133	0	10:05			
OR1	ORIFICE	0.177	0	09:23			
OR2	ORIFICE	0.194	0	09:21			1.00
OR3	ORIFICE	0.000	0	00:00			0.00
OL1	DUMMY	0.297	0	11:05			
OL10	DUMMY	0.038	0	09:07			
OL11	DUMMY	0.214	0	09:09			
OL12	DUMMY	0.149	0	09:09			
OL13	DUMMY	0.151	0	09:09			
OL14	DUMMY	0.632	0	09:06			
OL15	DUMMY	0.316	0	09:03			
OL16	DUMMY	0.081	0	09:19			
OL17	DUMMY	0.108	0	09:06			
OL18	DUMMY	0.137	0	09:14			
OL19	DUMMY	0.146	0	09:14			
OL2	DUMMY	0.034	0	09:11			
OL20	DUMMY	0.107	0	09:08			
OL21	DUMMY	0.000	0	00:00			
OL22	DUMMY	0.013	0	09:07			
OL23	DUMMY	0.042	0	09:10			
OL24	DUMMY	0.017	0	09:05			
OL25	DUMMY	0.624	0	09:22			
OL26	DUMMY	0.021	0	09:06			
OL27	DUMMY	0.316	0	09:08			
OL28	DUMMY	0.316	0	09:12			
OL29	DUMMY	0.316	0	09:14			
OL3	DUMMY	0.316	0	09:05			
OL30	DUMMY	0.000	0	00:00			
OL31	DUMMY	0.049	0	09:07			
OL32	DUMMY	0.217	0	09:08			
OL33	DUMMY	0.000	0	00:00			
OL34	DUMMY	0.316	0	09:05			
OL35	DUMMY	0.055	0	09:10			
OL36	DUMMY	0.005	0	09:14			
OL37	DUMMY	0.158	0	09:07			
OL38	DUMMY	0.316	0	09:05			

OL39	DUMMY	0.060	0	09:08
OL4	DUMMY	0.026	0	09:08
OL40	DUMMY	0.127	0	09:07
OL41	DUMMY	0.000	0	00:00
OL42	DUMMY	0.009	0	09:23
OL43	DUMMY	0.004	0	09:09
OL44	DUMMY	0.122	0	09:09
OL45	DUMMY	0.129	0	09:10
OL46	DUMMY	0.185	0	09:16
OL47	DUMMY	0.088	0	09:08
OL48	DUMMY	0.007	0	09:15
OL49	DUMMY	0.073	0	09:12
OL50	DUMMY	0.004	0	09:17
OL51	DUMMY	0.152	0	09:07
OL52	DUMMY	0.127	0	09:08
OL53	DUMMY	0.105	0	09:08
OL54	DUMMY	0.020	0	09:07
OL55	DUMMY	0.029	0	09:09
OL56	DUMMY	0.153	0	09:09
OL57	DUMMY	0.285	0	09:20
OL58	DUMMY	0.042	0	09:13
OL59	DUMMY	0.028	0	09:14
OL6	DUMMY	0.013	0	09:05
OL60	DUMMY	0.029	0	09:05
OL61	DUMMY	0.029	0	09:05
OL62	DUMMY	0.021	0	09:05
OL63	DUMMY	0.062	0	09:05
OL7	DUMMY	0.038	0	09:16
OL8	DUMMY	0.045	0	09:13
OL9	DUMMY	0.158	0	09:06
OR4	DUMMY	0.119	0	09:14

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Flow Classification Summary
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	Adjusted	Fraction of Time in Flow Class								
	/Actual		Up	Down	Sub	Sup	Up	Down	Norm	Inlet
Conduit	Length	Dry	Dry	Dry	Crit	Crit	Crit	Crit	Ltd	Ctrl

C_dummy	1.00	0.00	0.00	0.00	0.07	0.93	0.00	0.00	0.03	0.00
C1	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.56	0.00
C10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.35	0.00
C100	1.00	0.00	0.00	0.00	0.74	0.00	0.00	0.26	0.00	0.00
C106	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.74	0.00
C108	1.00	0.31	0.03	0.00	0.25	0.00	0.00	0.40	0.48	0.00
C11	1.00	0.00	0.00	0.00	0.42	0.57	0.00	0.00	0.27	0.00
C110	1.00	0.30	0.01	0.00	0.32	0.00	0.00	0.37	0.43	0.00
C111	1.00	0.60	0.03	0.00	0.37	0.00	0.00	0.00	0.41	0.00
C113	1.00	0.31	0.01	0.00	0.30	0.00	0.00	0.38	0.02	0.00
C114	1.00	0.35	0.02	0.00	0.18	0.00	0.00	0.46	0.50	0.00
C115	1.00	0.87	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C116	1.00	0.49	0.04	0.00	0.47	0.00	0.00	0.00	0.33	0.00
C118	1.00	0.25	0.21	0.00	0.54	0.00	0.00	0.00	0.25	0.00
C119_1	1.00	0.30	0.17	0.00	0.54	0.00	0.00	0.00	0.25	0.00
C119_2	1.00	0.00	0.00	0.00	0.74	0.00	0.00	0.26	0.00	0.00
C12	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.95	0.00
C123	1.00	0.00	0.00	0.00	0.71	0.00	0.00	0.28	0.01	0.00
C124	1.00	0.00	0.00	0.00	0.69	0.00	0.00	0.31	0.00	0.00
C125	1.00	0.00	0.00	0.00	0.72	0.01	0.00	0.27	0.00	0.00
C126	1.00	0.00	0.00	0.00	0.72	0.00	0.00	0.27	0.00	0.00
C127	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C128	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C129	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.21	0.00
C13	1.00	0.00	0.00	0.00	0.55	0.04	0.00	0.40	0.35	0.00
C130	1.00	0.00	0.00	0.00	0.55	0.00	0.00	0.45	0.14	0.00
C14	1.00	0.00	0.00	0.00	0.36	0.00	0.00	0.64	0.02	0.00
C145	1.00	0.00	0.00	0.00	0.16	0.00	0.00	0.84	0.02	0.00
C147	1.00	0.00	0.00	0.00	0.24	0.00	0.00	0.75	0.03	0.00
C15	1.00	0.00	0.00	0.00	0.93	0.07	0.00	0.00	0.83	0.00
C150	1.00	0.00	0.00	0.00	0.31	0.00	0.00	0.69	0.02	0.00
C151	1.00	0.01	0.00	0.00	0.33	0.00	0.00	0.66	0.02	0.00
C156	1.00	0.00	0.00	0.00	0.30	0.00	0.00	0.70	0.10	0.00
C159	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.00	0.00
C16	1.00	0.00	0.00	0.00	0.95	0.05	0.00	0.00	0.93	0.00
C160	1.00	0.41	0.34	0.00	0.25	0.00	0.00	0.00	0.55	0.00
C161	1.00	0.25	0.01	0.00	0.14	0.00	0.00	0.60	0.01	0.00
C164	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.37	0.00
C165	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.99	0.00
C167	1.00	0.00	0.00	0.00	0.95	0.05	0.00	0.00	0.03	0.00

C17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.95	0.00
C18	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.91	0.00
C185	1.00	0.00	0.00	0.00	0.12	0.00	0.00	0.88	0.00	0.00
C186	1.00	0.00	0.00	0.00	0.54	0.00	0.00	0.46	0.03	0.00
C187	1.00	0.00	0.00	0.00	0.98	0.00	0.00	0.01	0.83	0.00
C188	1.00	0.02	0.00	0.00	0.07	0.00	0.00	0.92	0.00	0.00
C189	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C190	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C193	1.00	0.27	0.00	0.00	0.02	0.00	0.00	0.72	0.00	0.00
C194	1.00	0.24	0.01	0.00	0.19	0.00	0.00	0.56	0.07	0.00
C2	1.00	0.00	0.00	0.00	0.76	0.00	0.00	0.24	0.32	0.00
C20	1.00	0.00	0.00	0.00	0.68	0.32	0.00	0.00	0.27	0.00
C200-	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.95	0.00	0.00
C205	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.00	0.00
C206	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C207	1.00	0.00	0.00	0.00	0.14	0.00	0.00	0.86	0.02	0.00
C21	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.79	0.00
C211	1.00	0.00	0.25	0.00	0.74	0.00	0.00	0.00	0.00	0.00
C212	1.00	0.26	0.00	0.00	0.37	0.00	0.00	0.38	0.00	0.00
C213	1.00	0.26	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00
C22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.77	0.00
C228	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.77	0.00
C229	1.00	0.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C23	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C230	1.00	0.00	0.86	0.00	0.14	0.00	0.00	0.00	0.58	0.00
C231	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
C232	1.00	0.51	0.23	0.00	0.26	0.00	0.00	0.00	0.51	0.00
C233	1.00	0.00	0.50	0.00	0.49	0.00	0.00	0.00	0.31	0.00
C234	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C235	1.00	0.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C239	1.00	0.80	0.01	0.00	0.18	0.00	0.00	0.00	0.55	0.00
C24	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.95	0.00
C240	1.00	0.27	0.00	0.00	0.11	0.00	0.00	0.62	0.00	0.00
C244	1.00	0.26	0.00	0.00	0.16	0.00	0.00	0.57	0.55	0.00
C245	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C246	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C248	1.00	0.01	0.00	0.00	0.03	0.00	0.00	0.96	0.00	0.00
C25	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.62	0.00
C250	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C251	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00

C252	1.00	0.00	0.00	0.00	0.04	0.07	0.00	0.89	0.04	0.00
C253	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.02	0.00
C254	1.00	0.00	0.00	0.00	0.01	0.01	0.00	0.98	0.00	0.00
C255	1.00	0.25	0.00	0.00	0.03	0.00	0.00	0.71	0.61	0.00
C256	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.95	0.00	0.00
C257	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C258	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C259	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C26	1.00	0.00	0.00	0.00	0.18	0.00	0.00	0.82	0.08	0.00
C260	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C263	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C269	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C27	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C28	1.00	0.00	0.00	0.00	0.91	0.09	0.00	0.00	0.86	0.00
C281	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.93	0.00	0.00
C284	1.00	0.00	0.00	0.00	0.06	0.00	0.00	0.94	0.01	0.00
C285	1.00	0.24	0.01	0.00	0.09	0.00	0.00	0.65	0.02	0.00
C288	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C289	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C29	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.20	0.00
C292	1.00	0.01	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
C293	1.00	0.01	0.00	0.00	0.03	0.96	0.00	0.00	0.19	0.00
C3	1.00	0.00	0.00	0.00	0.61	0.00	0.00	0.39	0.19	0.00
C30	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
C34	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.61	0.00
C343	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.90	0.00	0.00
C344	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
C345	1.00	0.00	0.00	0.00	0.45	0.00	0.00	0.55	0.00	0.00
C346	1.00	0.00	0.00	0.00	0.03	0.97	0.00	0.00	0.02	0.00
C347	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.15	0.00
C348	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00
C349	1.00	0.00	0.00	0.00	0.22	0.78	0.00	0.00	0.79	0.00
C35	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.91	0.00
C350	1.00	0.00	0.00	0.00	0.75	0.25	0.00	0.00	0.02	0.00
C351	1.00	0.79	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C352	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.20	0.00
C353	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C36	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00

C37	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.76	0.00
C38	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C39	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.16	0.00
C4	1.00	0.00	0.00	0.00	0.40	0.00	0.00	0.60	0.05	0.00
C40	1.00	0.00	0.00	0.00	0.74	0.26	0.00	0.00	0.97	0.00
C41	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.78	0.00
C42	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.09	0.00
C43	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C437	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C44	1.00	0.05	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00
C47	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C48	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C5	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.98	0.00
C50	1.00	0.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C53	1.00	0.02	0.00	0.00	0.40	0.00	0.00	0.57	0.24	0.00
C54	1.00	0.00	0.00	0.00	0.33	0.00	0.00	0.67	0.06	0.00
C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
C60	1.00	0.02	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00
C63	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C65	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.98	0.00
C653	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.00	0.00
C655	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.93	0.00	0.00
C656	1.00	0.00	0.00	0.00	0.93	0.00	0.00	0.07	0.00	0.00
C657	1.00	0.94	0.05	0.00	0.00	0.00	0.00	0.00	0.62	0.00
C658	1.00	0.01	0.00	0.00	0.02	0.00	0.00	0.97	0.00	0.00
C660	1.00	0.00	0.00	0.00	0.08	0.04	0.00	0.87	0.01	0.00
C662	1.00	0.00	0.01	0.00	0.88	0.12	0.00	0.00	0.00	0.00
C663	1.00	0.00	0.00	0.00	0.14	0.01	0.00	0.85	0.02	0.00
C664	1.00	0.00	0.00	0.00	0.36	0.64	0.00	0.00	0.83	0.00
C665	1.00	0.00	0.97	0.00	0.03	0.00	0.00	0.00	0.61	0.00
C666	1.00	0.00	0.00	0.00	0.04	0.96	0.00	0.00	0.28	0.00
C667	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.01	0.00
C668	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C669	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
C670	1.00	0.01	0.75	0.00	0.23	0.00	0.00	0.00	0.61	0.00
C671	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C672	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C673	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.01	0.00
C674	1.00	0.07	0.00	0.00	0.00	0.93	0.00	0.00	0.12	0.00
C68	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C685	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C686	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C687	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C688	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.73	0.00
C689	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C69	1.00	0.00	0.00	0.00	0.81	0.19	0.00	0.00	0.92	0.00
C690	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C7	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.00	0.00
C70	1.00	0.00	0.00	0.00	0.23	0.77	0.00	0.00	0.01	0.00
C700	1.00	0.00	0.02	0.00	0.33	0.65	0.00	0.00	0.73	0.00
C701	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.00	0.00
C702	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.09	0.00
C703	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C704	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.07	0.00
C705	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C707	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C708	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C709	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C710	1.00	0.01	0.00	0.00	0.02	0.04	0.00	0.94	0.01	0.00
C711	1.00	0.01	0.00	0.00	0.13	0.00	0.00	0.86	0.05	0.00
C712	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
C713	1.00	0.01	0.00	0.00	0.20	0.00	0.00	0.79	0.03	0.00
C714	1.00	0.00	0.02	0.00	0.46	0.00	0.52	0.00	0.00	0.00
C715	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C716	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.00	0.00
C717	1.00	0.00	0.00	0.00	0.07	0.00	0.00	0.93	0.00	0.00
C718	1.00	0.01	0.77	0.00	0.22	0.00	0.00	0.00	0.56	0.00
C727	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C73	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C734	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C735	1.00	0.00	0.00	0.00	0.19	0.00	0.00	0.81	0.00	0.00
C736	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C737	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C738	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C739	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C740	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C741	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C751	1.00	0.01	0.00	0.00	0.00	0.98	0.00	0.02	0.91	0.00
C752	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
C753	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.90	0.00	0.00
C754	1.00	0.00	0.00	0.00	0.74	0.26	0.00	0.00	0.58	0.00
C755	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.06	0.00

C756	1.00	0.00	0.00	0.00	0.17	0.00	0.00	0.83	0.00	0.00
C757	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C758	1.00	0.00	0.00	0.00	0.62	0.38	0.00	0.00	0.01	0.00
C759	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C76	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C760	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C762	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C763	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.37	0.00
C764	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.91	0.00
C765	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.89	0.00
C766	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.81	0.00
C767	1.00	0.01	0.00	0.00	0.05	0.00	0.00	0.94	0.00	0.00
C77	1.00	0.00	0.00	0.00	0.23	0.00	0.00	0.77	0.02	0.00
C8	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
C80	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.07	0.00
C9	1.00	0.00	0.00	0.00	0.41	0.59	0.00	0.00	0.14	0.00
C94	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.13	0.00
CB72	1.00	0.00	0.00	0.00	0.20	0.01	0.00	0.79	0.10	0.00
MC_C6	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.65	0.00
MC10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.00
MC100	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC101	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC102	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.14	0.00
MC103	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC104	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC105	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.05	0.00
MC107	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.91	0.00
MC108	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.12	0.00
MC109	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.81	0.00
MC11	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC12	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC120	1.00	0.00	0.06	0.00	0.94	0.00	0.00	0.00	0.86	0.00
MC121	1.00	0.00	0.06	0.00	0.94	0.00	0.00	0.00	0.91	0.00
MC122	1.00	0.00	0.06	0.00	0.94	0.00	0.00	0.00	0.91	0.00
MC123	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.00	0.00
MC124	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC125	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC126	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC128	1.00	0.00	0.01	0.00	0.98	0.00	0.00	0.00	0.97	0.00
MC129	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00

MC13	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC130	1.00	0.00	0.01	0.00	0.98	0.00	0.00	0.00	0.97	0.00
MC131	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.09	0.00
MC132	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC133	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.74	0.00
MC135	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.75	0.00
MC136	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.51	0.00
MC137	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC139	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.24	0.00
MC14	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.81	0.00
MC141	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.79	0.00
MC142	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC143	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.10	0.00
MC144	1.00	0.00	0.00	0.00	0.21	0.79	0.00	0.00	0.20	0.00
MC145	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.19	0.00
MC146	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.30	0.00
MC147	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC148	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.81	0.00
MC149	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC150	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC151	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.77	0.00
MC152	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.90	0.00
MC153	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
MC154	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC155	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC156	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.95	0.00
MC157	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC158	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC159	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.54	0.00
MC16	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC160	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.96	0.00
MC161	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.96	0.00
MC162	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC163	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC164	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.93	0.00
MC165	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.76	0.00
MC166	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC167	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC168	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.14	0.00
MC169	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.30	0.00

MC17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC170	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.36	0.00
MC171	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC172	1.00	0.00	0.00	0.00	0.73	0.27	0.00	0.00	0.98	0.00
MC173	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC174	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC175	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC176	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC177	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC178	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC179	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC18	1.00	0.00	0.24	0.00	0.76	0.00	0.00	0.00	0.61	0.00
MC180	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC181	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.83	0.00
MC182_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.79	0.00
MC182_2	1.00	0.00	0.23	0.00	0.76	0.00	0.00	0.00	0.02	0.00
MC182_3	1.00	0.01	0.22	0.00	0.77	0.00	0.00	0.00	0.00	0.00
MC182_5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.96	0.00
MC183	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.16	0.00
MC184	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.82	0.00
MC185	1.00	0.00	0.00	0.00	0.27	0.73	0.00	0.00	0.16	0.00
MC186	1.00	0.00	0.00	0.00	0.56	0.44	0.00	0.00	0.89	0.00
MC187	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC188	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.85	0.00
MC189	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.00	0.81	0.00
MC19	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC190	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC191	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.49	0.00
MC192	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC193	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_1	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC194_2	1.00	0.71	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC195	1.00	0.00	0.71	0.00	0.29	0.00	0.00	0.00	0.61	0.00
MC196	1.00	0.00	0.23	0.00	0.77	0.00	0.00	0.00	0.56	0.00
MC197	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC198	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.84	0.00
MC199	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.86	0.00
MC2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MC20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC200	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00
MC201	1.00	0.90	0.07	0.00	0.02	0.01	0.00	0.00	0.62	0.00

MC202	1.00	0.09	0.81	0.00	0.10	0.00	0.00	0.00	0.60	0.00
MC203	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.97	0.00
MC204	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC205	1.00	0.92	0.00	0.00	0.08	0.00	0.00	0.00	0.59	0.00
MC206	1.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	0.23	0.00
MC207_1	1.00	0.00	0.00	0.00	0.63	0.37	0.00	0.00	0.76	0.00
MC207_3	1.00	0.00	0.00	0.00	0.41	0.59	0.00	0.00	0.06	0.00
MC207_4	1.00	0.00	0.00	0.00	0.44	0.56	0.00	0.00	0.16	0.00
MC208	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC209	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC21	1.00	0.21	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00
MC210	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC211	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC212	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC213	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.97	0.00
MC214_1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC214_2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.10	0.00
MC215	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.58	0.00
MC216	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC217	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.93	0.00
MC219	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.09	0.00
MC22	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC220	1.00	0.00	0.00	0.00	0.88	0.12	0.00	0.00	0.66	0.00
MC221	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC223	1.00	0.00	0.00	0.00	0.94	0.06	0.00	0.00	0.92	0.00
MC224	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC225	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC226	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC227	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.30	0.00
MC228	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.19	0.00
MC229	1.00	0.00	0.03	0.00	0.97	0.00	0.00	0.00	0.41	0.00
MC23	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.84	0.00
MC230	1.00	0.00	0.02	0.00	0.98	0.00	0.00	0.00	0.92	0.00
MC231	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.00	0.79	0.00
MC232	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC24	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.01	0.00
MC25	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.92	0.00
MC26	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC27	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
MC28	1.00	0.00	0.00	0.00	0.92	0.08	0.00	0.00	0.04	0.00
MC29	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MC3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.00
MC30	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC31	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.75	0.00
MC32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MC34	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MC35	1.00	0.00	0.12	0.00	0.88	0.00	0.00	0.00	0.77	0.00
MC36	1.00	0.00	0.12	0.00	0.88	0.00	0.00	0.00	0.00	0.00
MC37	1.00	0.00	0.00	0.00	0.41	0.59	0.00	0.00	0.45	0.00
MC38	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.22	0.00
MC39	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.60	0.00
MC4	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC40	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC41	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC42	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC43	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC44	1.00	0.00	0.25	0.00	0.75	0.00	0.00	0.00	0.63	0.00
MC45	1.00	0.00	0.24	0.00	0.75	0.00	0.00	0.00	0.59	0.00
MC46	1.00	0.00	0.23	0.00	0.77	0.00	0.00	0.00	0.56	0.00
MC47	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.87	0.00
MC48	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC49	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC50	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC51	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC52	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.91	0.00
MC53	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC54	1.00	0.00	0.23	0.00	0.77	0.00	0.00	0.00	0.00	0.00
MC55	1.00	0.01	0.22	0.00	0.77	0.00	0.00	0.00	0.65	0.00
MC56	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.60	0.00
MC57	1.00	0.00	0.23	0.00	0.77	0.00	0.00	0.00	0.65	0.00
MC58	1.00	0.00	0.22	0.00	0.78	0.00	0.00	0.00	0.00	0.00
MC59	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC6	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	0.17	0.00
MC62	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC64	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.95	0.00
MC65	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.99	0.00
MC66	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC67	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.86	0.00
MC68	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC69	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.18	0.00

MC7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC70	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
MC71	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC72	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC73	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC74	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.30	0.00
MC75	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC76	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC77	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.20	0.00
MC78	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.88	0.00
MC79	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC8	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC80	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MC82	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC83	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC84	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.80	0.00
MC85	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC86	1.00	0.00	0.00	0.00	0.02	0.98	0.00	0.00	0.12	0.00
MC87	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.89	0.00
MC89	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC9	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MC90	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.98	0.00
MC91	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.06	0.00
MC92	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC93	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.99	0.00
MC97	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.13	0.00
MC98	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.77	0.00
MC99	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.98	0.00
MJ-C5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
MJ-C6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.81	0.00
MJ-C7	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
MJ-C8	1.00	0.06	0.00	0.00	0.78	0.16	0.00	0.00	0.07	0.00

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Conduit Surcharge Summary
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	Hours Full		Hours Above Full	Hours Capacity
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Conduit	Both Ends	Upstream	Dnstream	Normal Flow	Limited
C100	4.31	4.31	4.66	0.03	0.01
C106	0.01	0.01	2.98	0.01	0.01
C108	0.01	0.01	1.55	0.01	0.01
C110	1.89	1.89	2.77	0.01	0.01
C111	2.70	2.70	4.21	0.01	0.01
C113	1.91	1.91	2.70	0.01	0.01
C116	4.21	4.21	4.88	0.01	0.01
C118	5.04	5.04	6.13	0.01	0.01
C119_1	1.81	1.81	2.85	0.01	0.01
C119_2	5.01	5.01	6.41	0.01	0.01
C123	5.78	6.01	6.57	0.99	0.72
C124	5.66	5.68	5.80	1.49	1.40
C125	6.00	6.00	7.38	0.01	0.01
C126	8.29	8.29	8.74	0.12	0.01
C130	3.92	3.92	5.35	0.30	0.29
C145	0.01	0.01	1.31	0.01	0.01
C147	1.39	1.39	1.59	0.01	0.01
C150	1.76	1.76	2.44	0.01	0.01
C151	1.73	1.73	2.17	0.12	0.20
C156	1.23	1.24	1.69	0.10	0.08
C159	1.31	1.46	1.31	1.54	1.31
C160	1.30	1.30	1.43	0.01	0.01
C161	1.04	1.04	1.27	0.01	0.01
C167	0.13	0.27	0.13	0.39	0.13
C185	0.14	0.14	0.15	0.01	0.01
C186	0.16	0.16	0.19	0.01	0.01
C187	0.20	0.20	0.20	0.25	0.17
C188	0.19	0.20	0.20	0.23	0.18
C194	0.01	0.01	0.30	0.01	0.01
C2	2.98	2.98	4.60	0.01	0.01
C200-	0.29	0.29	0.30	0.18	0.17
C207	0.08	0.08	0.13	0.01	0.01
C211	0.01	0.01	14.93	0.01	0.01
C228	1.84	1.84	4.36	0.01	0.01
C230	0.84	0.84	0.85	0.01	0.01
C231	1.03	1.03	1.04	0.49	0.49
C232	0.94	0.94	1.00	0.01	0.01
C233	1.00	1.00	1.03	0.63	0.01
C239	1.27	1.27	1.42	0.01	0.01

C240	1.07	1.07	1.12	0.01	0.01
C244	1.19	1.19	1.30	0.01	0.01
C248	0.11	0.31	0.11	0.42	0.11
C252	0.21	0.21	0.26	0.01	0.01
C253	0.10	0.28	0.10	0.37	0.10
C254	0.10	0.10	0.19	0.08	0.07
C255	0.07	0.07	0.17	0.01	0.01
C256	0.29	0.29	0.34	0.01	0.01
C258	0.11	0.27	0.11	0.49	0.11
C260	0.01	0.56	0.01	0.60	0.01
C281	0.48	0.56	0.48	0.60	0.48
C284	0.23	0.32	0.38	0.61	0.17
C285	0.01	0.01	0.04	0.01	0.01
C3	2.58	2.58	4.25	0.01	0.01
C343	0.80	0.80	0.81	0.63	0.58
C344	0.85	0.85	0.99	0.59	0.58
C345	0.60	0.75	0.60	1.02	0.60
C346	0.01	0.01	0.01	0.57	0.01
C350	0.01	0.22	0.01	0.37	0.01
C4	2.27	2.27	3.64	0.43	0.37
C5	0.01	0.01	15.09	0.01	0.01
C653	0.14	0.39	0.14	0.57	0.14
C655	0.24	0.24	0.25	0.19	0.16
C656	0.23	0.24	0.23	0.51	0.22
C658	0.10	0.30	0.10	0.43	0.10
C660	0.01	1.15	0.01	1.26	0.01
C662	0.01	0.01	2.07	5.82	0.01
C663	1.15	1.15	1.36	0.82	0.82
C664	0.94	0.94	0.98	0.87	0.83
C665	0.01	0.01	14.75	0.01	0.01
C666	0.01	0.15	0.01	0.33	0.01
C673	0.79	0.79	1.09	0.01	0.02
C700	1.15	1.16	1.15	1.20	1.11
C701	0.01	0.01	0.01	0.29	0.01
C710	0.09	0.09	0.14	0.01	0.01
C711	0.15	0.15	0.55	0.01	0.01
C712	1.51	1.51	20.75	0.30	0.31
C713	0.68	0.68	1.56	0.01	0.01
C714	0.90	0.90	1.00	0.33	0.01
C715	0.01	0.19	0.01	1.08	0.01
C716	0.24	0.24	0.31	0.09	0.09

C717	0.25	0.25	0.28	0.01	0.01
C718	0.52	0.52	0.70	0.01	0.01
C751	0.01	0.01	1.16	0.01	0.01
C752	1.47	1.47	2.07	1.14	1.14
C753	0.98	0.98	1.01	0.82	0.81
C754	0.85	0.85	1.03	0.01	0.01
C755	1.42	1.42	1.54	0.01	0.02
C756	1.21	1.21	1.24	0.01	0.04
C757	0.33	0.34	0.33	0.39	0.33
C763	0.01	0.01	0.02	0.02	0.01
C764	0.19	0.64	0.19	1.01	0.19
C765	1.48	1.48	1.56	0.01	0.01
C766	1.56	1.56	1.64	0.01	0.01
C767	0.25	0.33	0.25	0.45	0.25
C94	0.01	0.01	2.58	0.01	0.01
CB72	0.01	0.13	0.01	0.22	0.01
MC148	0.01	0.01	14.89	0.01	0.01
MC202	0.01	0.01	0.61	0.01	0.01
MC208	0.01	0.01	0.01	0.31	0.01
MC220	0.01	0.01	0.61	0.01	0.01
MC231	0.01	0.01	14.89	0.01	0.01

Analysis begun on: Wed Oct 18 09:49:39 2023
Analysis ended on: Wed Oct 18 09:49:48 2023
Total elapsed time: 00:00:09

Appendix D

Technical Memorandum #4 – Implementation Plan

Lambton Shores

Final Technical Memorandum #4

Implementation Plan

Grand Bend Stormwater Management Master Plan

March 2024

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DRAFT TECHNICAL MEMORANDUM #4

Implementation Plan

Grand Bend Stormwater Management Master Plan

March 04, 2024

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Version Control

Issue	Revision No.	Date Issued	Description	Reviewed By
1	V1	January 26, 2024	Draft Report for Client Review	Will Heywood, P. Eng.; Roy Johnson, P. Eng.
2	V2	March 04, 2024	Final Report	Will Heywood, P. Eng.; Roy Johnson, P. Eng.

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Acronyms and Abbreviations

AMSL	Above Mean Sea Level
CB	Catchbasin
DCB	Double Catch Basin
DEM	Digital Elevation Model
ECA	Environmental Compliance Approval
ECCC	Environment and Climate Change Canada
GIS	Geographic Information System
HGL	Hydraulic Grade Line
ICD	Inlet Control Devices
ICLR	Institute For Catastrophic Loss Reduction
IDF	Intensity-Duration-Frequency
LID	Low Impact Development
LOS	Level-Of-Service
MH	Maintenance Hole
OGS	Ontario Geological Survey
ROW	Right-Of-Way
RYCB	Rear-Yard Catch Basin
SWMF	Stormwater Management Facilities
SWMMP	Stormwater Management Master Plan
TM	Technical Memorandum

1 Introduction

1.1 Background and Purpose

Arcadis will identify all aspects of implementation for proposed source control, conveyance control, end-of-pipe controls, restoration measures and trunk sewer upgrades projects outlined in the preferred SWM strategy. The preferred solutions will be mapped and discussed relative to their evaluated effectiveness in meeting the evaluation criteria.

Arcadis will also identify the requirements and mechanisms for the incorporation of the recommended stormwater technologies into new development, redevelopment, rehabilitation, or infrastructure replacement.

This Plan should be read in conjunction with Technical Memoranda 1-3, provided under separate covers.

1.2 Scope of the Implementation Plan

In addition to providing physical solutions in the SWM strategy, the project team will provide guidance on how to incorporate recommended policies and preferred solutions into Municipality the Official Plan, Zoning By-Laws, development standards and other relevant regulations. The Implementation Plan will direct the allocation of funding, the prioritization of works and which includes the necessary supporting policies to permit the implementation of the recommended approaches to achieve the overall SWMP goals and objectives.

1.3 Key Objectives

The primary objective of the Implementation Plan is to identify SWM measures required to address existing deficiencies, discussing the timing of the measures, and discuss potential funding opportunities.

Fact sheets and maps for each stormwater service area were developed that summarizes the existing conditions, and the preferred SWM solutions and other relevant facts related to the SWMMP.

2 Implementation Framework

2.1 Identification of Proposed Stormwater Projects

Please refer to Technical Memorandum #3 for details of proposed Stormwater measures. As part of TM3, several alternative solutions were generated for SWM measures for the existing and future land uses within the Village.

A preferred SWM Strategy was developed by the synthesis of the inter-disciplinary inputs to the project, including computer modeling, social, cultural, and economic considerations. The approach in developing and evaluating the alternative is generally consistent with the Class EA planning/design process for Master Planning projects.

The preferred SWM strategy will be comprised of several elements. These may include upgrade or replacement of existing storm pipes and culverts; erosion abatement projects; overland drainage improvements, construction of new storm pond facilities or other types of centralized SWM such as infiltration facilities; and recommendations regarding stormwater design practices within new developments to minimize stormwater volume at the source and achieve objectives for preserving existing local hydrology.

To identify the solution that best encompasses the study's principles, goals and objectives; a long list of alternatives was generated. The alternatives consider both existing and future land uses within the Village.

The development of Alternative SWM Strategies is necessary to determine the effectiveness of each strategy with respect to protecting, enhancing, and restoring the natural resources of the watersheds located within the Village under existing and planned land use changes.

For the purposes of the SWMMP, a SWM Strategy was defined as a set of BMPs which, when implemented collectively, will attempt to address impacts associated with change in land uses within the watersheds. The land uses under consideration include existing urban and rural land uses and proposed development within the settlement areas.

The assessment was undertaken using results from the modelling as well as considering various factors such as social, economic and environmental criteria which are defined to further develop specific components of the Alternative Strategies. In addition, the assessment will look to find an alternative which minimizes, to the extent possible, the impact on the community, natural environment and the economy.

The approach used for developing and evaluating alternatives is, where appropriate, consistent with the planning and design process for Master Planning projects as described in the Class EA document. The approach has been used for measures which are located outside proposed development areas (i.e., stream restoration works, stormwater pond retrofit works).

SWM Strategy Alternatives are assessed in **Table 2.1**.

Table 2.1 SWM Strategy Alternatives Assessment

PRELIMINARY CRITERIA	SWM STRATEGY ALTERNATIVES				
	DO NOTHING	TRADITIONAL	TRAD W/ BMPS	TRAD W/ ICDS	TRAD W/ ICDS & ADDITIONAL CBS
Land Uses Where Strategy is to be Applied	None	Proposed Development Areas and Existing Urban Areas	Proposed Development Areas and Existing Urban Areas	Proposed Development Areas and Existing Urban Areas	Proposed Development and Existing Rural Areas
Flows localized flooding	Increase in Runoff Rates and Volumes	Reduction in Peak Flow Rate and surface ponding	Reduction in Flow Volume; Minor Reduction in Flow Rate	Reduction in HGL in Urban Areas	Reduction in HGL and surface ponding in Urban Areas
Phosphorus Loading	Current Condition	Current Condition	Reduction	Current Condition	Current Condition
Infiltration	Current Condition	Reduction	Increase	Current Condition	Current Condition
Erosion Potential	Current Condition	Increase	Reduction	Current Condition	Current Condition

2.2 Fact Sheets for Stormwater Service Areas

Based on the information developed in the previous steps, the preferred strategy for the Village is illustrated in **Table 2.2** also presents a summary of recommendations and considerations for each Study Area.

Table 2.2 Preferred Alternative for Problematic Areas

ONTARIO STREET NORTH	Future Improvements	• ICDs to be added at MH locations of MH10, MH8, MH3, MH4. • Sewer Pipe C716, C248, C767 could be upsized.
	Dependencies / Triggers	• The sewer on Ontario Street is expected to surcharge to the surface, limiting the ability for additional catch basins. • The addition of ICDs offset the negative impact of additional flow in the storm sewers. • A proposed design of the sewers system has been completed. Upgrades to the storm sewer are dependent on the life cycle renewal.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • Upsizing the storm sewer on Ontario Street will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Ontario Street. • Where the sewer does not have capacity, minor upsizing of the storm sewer is recommended. • Additional catch basins without other improvements are not recommended as the sewers are surcharging to the surface. **CAVEAT**: As this street's storm sewers were just designed following standard engineering practice, the modeling analysis completed may be too conservative in its estimation of flooding. The plans for this area are therefore subject to future review before any remedial work is deemed necessary.
MAIN STREET WEST	Future Improvements	• ICDs to be added at MH locations of MH4_Main, MH5_Main, MH6_Main. • Additional catch basins (8 CBs) to be added at the low point close to MJ105*. • Sewer Pipe C663, C664, C666, C753, C752 to be upsized. * MJ = Major Junction in PCSWMM Model
	Dependencies / Triggers	• Upgrades to the storm sewer are dependent on the grading constraints. • The design of any upgrades to storm sewers should consider the impact of larger storm events (i.e., 100-year) • As there are no outlets for the major system on Main Street and sewers surcharging to the surface will increase ponding.
	Benefits	• ICDs do not result in a large increase of ponding on roadways. • Additional catch basins at low points allow for ICDs to be installed upstream without worsening surface flooding and ponding at low points. • Upsizing the storm sewer on Main Street West will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for some areas of Main Street West. • Additional catch basins are recommended at low points where ICDs have been added upstream. • Where the sewer does not have capacity for additional catch basins, minor upsizing of the storm sewer is recommended.
GILL ROAD	Future Improvements	• ICDs to be added at MH locations of MH25-1 and MH26. • Additional catch basins (4 CBs) to be added at the low point close to MJ146*. • Sewer Pipe C343, C714, C344, C345, C764, C715, C346, C347 to be upsized. * MJ = Major Junction in PCSWMM Model
	Dependencies / Triggers	• The storm sewer on Gill Road is over capacity during 5-year storm events and limits other improvements. • An ICD program is not recommended without other improvements.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • ICDs are a low-cost, short-term benefit to most properties in the area. • Upsizing the storm sewer on Rill Road will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Gill Road. • Upsizing the storm sewers to capture more flow with additional catch basins at low points is recommended. • Additional catch basins are recommended at low points **CAVEAT**: As this street's storm sewers were just designed following standard engineering practice, and no reports of flooding have been made, the plans for this area are therefore subject to future review before any remedial work is deemed necessary.
WILBERT STREET	Recommendations	• A pre-existing gravel pit retains stormwater. A local resident believes that the outlet may be blocked. The Village does not own it and consequently will not be addressing deficiencies.

HARBOURSIDE VILLAGE/ERIN PLACE	Recommendations	• The drainage ditch on Erin Place was constructed to divert water from the agricultural land to the south. It previously flowed through a natural ravine that existed prior to the subdivision being developed. The ditch itself is entirely on private property which limits the Municipalities ability to address it. • Lambton Shores staff have been working with the owner of the agricultural lands to create an alternative outlet for the water which may be completed under the Drainage Act or under some sort of other pre-development agreement.
GREEN ACRES CRESCENT	Future Improvements	• ICDs to be added at MH locations of J113, J101, J102**. • Sewer Pipe C712, C674 to be upsized. ** "J" indicates a minor system (pipe) junction in PCSWMM
	Dependencies / Triggers	• The downstream sewer is expected to surcharge to the surface, limiting the ability for additional catch basins.
	Benefits	• ICDs improve the level of service to reduce the risk of basement flooding in the area. • ICDs are a low-cost, short-term benefit to most properties in the area. • Upsizing the storm sewer will benefit the minor system performance for the area.
	Recommendations	• ICDs are recommended for Green Acres Crescent. • Where the sewer does not have capacity, minor upsizing of the storm sewer is recommended.
RESIDENTIAL AREAS WITHOUT SEWERS	Future Improvements	Consider installing proposed sewer system within the problematic area for a long-term development. Provide overland flow route by revise grading.
	Dependencies / Triggers	Significant surface ponding at low points without minor systems
	Benefits	Installation of storm sewer systems will benefit several properties with a history of flooding.
	Recommendations	The residential areas at the northwest of the Village have a history of flooding and installation of the storm sewer will improve the performance in these areas. Revise the grading and provide positive outlet for overland flow route to avoid ponding at low points within the areas. **CAVEAT**: Due to the expense and complexity of installing new storm sewers, any work should be considered in the context of municipal budgets and carried out during other scheduled road works.

3 Policy Integration

3.1 Incorporation into Municipal Official Plan

The recommendations of this Master Plan should be incorporated into the next Official Plan Update.

In addition to providing physical solutions in the stormwater quantity and quality management strategy, the Project Team will also recommend policies based on review of other local municipal, provincial, or other agency documents. The recommendations for incorporation to Municipality policies will be detailed in the Master Plan document. Policy recommendations will include, but not be limited to:

- Municipal standards, operations, maintenance, and design practices; and,
- Infill development SWM practices.

3.2 Zoning By-laws and Development Standards

Comparable municipal guidelines, such as the

1. City of Barrie's Storm Drainage and Stormwater Management Policies and Guidelines, 2009;
2. the City of Toronto's Wet Weather Flow Management Guidelines, 2007; and,
3. the City of London's Design Specifications & Requirements Manual 2023.

were reviewed to ensure the Municipality maintains current standards in stormwater maintenance and design. The review of various municipal perspectives will allow for optimization of the Municipality's own practices.

The following **Table 3.1**, **Table 3.2** and **Table 3.4** summarize the key SWM criteria for the municipalities noted above.

3.2.1 City of Barrie

Table 3.1 SWM Criteria Summary – City of Barrie

PARAMETER	CRITERIA[1]	ARCADIS COMMENTARY
Water Quality and Erosion Control	As per Ontario Regulation 219/09 regarding water quality and phosphorus loading to Lake Simcoe, all new SWM facilities shall provide as a minimum the Enhanced level of protection as specified in *the Stormwater Management Planning and Design Manual* (MOE, 2003). Ontario Regulation 219/09 may not apply to infill developments and the redevelopment of one or more properties if the applicant can demonstrate to the satisfaction of the Director (MOE) that it is impractical to achieve the Enhanced level of protection. In addition, it shall be demonstrated that through an evaluation of anticipated changes in phosphorus loadings between predevelopment and post-development conditions how the phosphorus loadings shall be minimized. Unless otherwise directed by the City or Conservation Authority, or unless otherwise indicated in an approved master drainage plan or watershed plan, developments ≥5ha in drainage area shall require erosion control measures to be implemented whereby the 25mm 4 hour Chicago storm shall be stored and released over a minimum 24 hour period. Proposed developments <5ha may require erosion control measures, depending upon the type of protection provided in any downstream facilities and the potential for downstream erosion. The erosion control requirements for proposed development sites <5ha shall be confirmed with the City and Conservation Authority.	Comparable to Municipality guidelines
Quantity Control	Post-to-pre quantity control shall be provided unless otherwise directed by the City or Conservation Authority, or unless otherwise indicated in an approved master drainage plan or watershed plan. Under certain circumstances where the proposed development is located in close proximity to Lake Simcoe and where there are no downstream land owners, the post-to pre- peak flow control requirements may be waived subject to approval by the City and Storm Drainage and Stormwater Management Policies and Design Guidelines City of Barrie May 2022 Conservation Authority.	Comparable to Village guidelines
Water Balance	All new developments with a contributing drainage area >5ha shall provide post-to-pre infiltration on-site where soils permit and unless otherwise established at the secondary plan stage. The water balance requirements apply to the property limit of the development and do not necessarily need to be achieved on a lot-by-lot basis (i.e. “communal” infiltration facilities that service multiple lots may be acceptable). Sites ≤5ha (e.g. site plans or infill sites) shall minimize any anticipated changes in the water balance between pre-development and post-development conditions and shall provide a minimum infiltration equivalent to the first 5mm of any given rainfall event.	Under pre-development conditions, including that of an open field, a hydrogeologic assessment of conditions must be completed to determine a feasible infiltration target. If the open field could not infiltrate 5mm, the post development cannot.

1 Note: Figure and table references from guideline documents are not included herein.

3.2.2 City of Toronto

Table 3.2 SWM Criteria Summary – City of Toronto

PARAMETER	CRITERIA [1]	ARCADIS COMMENTARY
Water Quality and Erosion Control	The wet weather flow (WWF) water quality target is the long-term average removal of 80% of Total Suspended Solids (TSS) on an annual loading basis from all runoff leaving the proposed development site based on the post-development level of imperviousness. (a) For Rouge River watershed (within City of Toronto), follow TRCA (Toronto and Region Conservation Authority) erosion control criteria for individual sites, which discharge directly to and/or are in proximity of natural watercourses. Detain the post-development rainfall runoff from a 30mm storm for a minimum of 24 hours for Tributary "B" of the little Rouge Creek (south of Steeles Ave. – see map on Appendix C.4) Detain the post-development rainfall runoff from a 33mm storm for a minimum of 48 hours for the Morningside Tributary of the Rouge River (south of Steeles Ave. – see map on Appendix C.4) (b) For all other watersheds where new large development blocks (site area >5ha) discharge directly and/or in proximity (within 100m) of natural watercourses, the proponents are required to complete an Erosion Analysis Report to determine the erosion control criteria for the sites (see Appendix E.2 for the Terms of Reference for such study analysis – or obtain the latest edition from TRCA). (c) For sites where it is not feasible (this condition must be reviewed and agreed by City staff) to complete an Erosion Analysis Report, we typically require that runoff from a 25mm design storm be detained on-site and released over a minimum of 24 hours. (d) For small infill/redevelopment sites <2ha, erosion control in the form of stormwater detention is normally not required, provided the on-site minimum runoff retention from a small design rainfall event (typically 5mm) is achieved under the Water Balance criteria. (e) New developments shall be designed to minimize the number of new storm outfalls in the valley and all new outfalls shall be designed to minimize potential erosion (see Appendix E.3 for Storm Outfall & Outfall Channel Design Criteria - obtained from TRCA).	Enhanced (80% TSS Removal) is a typical standard.
Quantity Control	(a) The required level of peak flow control from a development site contributing flow to a specific watercourse at the point of discharge, shall follow Toronto and Region Conservation Authority (TRCA) Flood Flow Criteria Map (see Appendix C.1). (b) For development sites within the City's chronic basement flooding areas (see City of Toronto Basement Flooding Relief Work Program Location Map & Schedule in Appendix D), the proponent shall consult Toronto Water - Sewer Asset Planning Section for details of requirements, where applicable. (c) The City of Toronto has adopted the 100-year storm as the level of protection for properties, where feasible, against surface flooding from ponding on streets, particularly, in areas of the City experiencing chronic basement flooding and/or when a proper major overland flow stormwater drainage system does not exist (see Section 2.2.3.8 for overland flow drainage system requirements).	100-year post development flows to 2-year pre-development flows.

PARAMETER	CRITERIA [1]	ARCADIS COMMENTARY
	(d) For development sites <2ha, the proponent may use a simplified approach such as the Rational Method / IDF curves to compute peak flows.	
Water Balance	(a) Retain stormwater on-site, to the extent practicable, to achieve the same level of annual volume of overland runoff (see Table 3 & Figure 2) allowable from the development site under pre-development (i.e. presently existing site conditions before the new proposed development) conditions. (b) If the allowable annual runoff volume (see Table 3 & Figure 2) from the development site under post-development conditions is less than the pre-development conditions, then the more stringent runoff volume requirement becomes the governing target for the development site. The maximum allowable annual runoff volume from any development site is 50% of the total average annual rainfall depth. (c) In most cases, the minimum on-site runoff retention requires the proponent to retain all runoff from a small design rainfall event - typically 5mm (In Toronto, storms with 24-hour volumes of 5mm or less contribute about 50% of the total average annual rainfall volume) through infiltration, evapotranspiration and rainwater reuse.	Under pre-development conditions, including that of an open field, a hydrogeologic assessment of conditions must be completed to determine a feasible infiltration target. If the open field could not infiltrate 5mm, the post development cannot.
Discharge Criteria	The allowable release rate to the municipal storm sewer system (minor system) from the development site during a 2-year design storm event must not exceed the peak runoff rate from the site under pre-development conditions during the same storm event, or existing capacity of the receiving storm sewer, whichever is less.	Suggest municipality retain 5-year event as minor system conveyance design.

1 Note: Figure and table references from guideline documents are not included herein.

3.2.3 City of London

Table 3.3 SWM Criteria Summary – City of London

PARAMETER	CRITERIA[1]	ARCADIS COMMENTARY
Water Quality and Erosion Control	The City of London requires engineered stormwater management systems to satisfy water quality requirements for peak flows and volumes up to the 25 mm storm event. A 25mm volume capture target represents the first flush runoff event and generally 90% of storm events in Ontario. The water quality event is also identified by the province to be a 25mm, 4 hour event in accordance with Section 4.6 of the 2003 MOE manual. Development applications within a site plan or subdivision process, are encouraged to capture the first 25mm of any rain event on site within a stormwater management system to satisfy water quality and water balance criteria. Implementing infiltration or filtration measures for a volume representing the 25mm event will be accepted to meet Total Suspended Solids (TSS) reduction target requirements. It should be noted that infiltration systems often require a water quality pre-treatment system to reduce sediment loading and prolong maintenance intervals. In cases where the stormwater management facility outlets to a storm sewer or ditch, a general erosion control storage of 40m3/ha may be applied (MOE, 2003)	Comparable to Municipality guidelines
Quantity Control		Comparable to Village guidelines

PARAMETER	CRITERIA[1]	ARCADIS COMMENTARY
Water Balance	A water balance analysis is required for all developments proposing changes to the site's impervious cover or drainage conditions. Sites proposing alterations which may introduce opportunities for reasonable improvements to overall water balance conditions may also require a water balance analysis as part of the development application process or detailed design process. The purpose of the water balance exercise is to estimate pre- and post-development infiltration and runoff conditions and identify how proposed stormwater management strategies achieve water balance objectives. The maintenance of pre-development infiltration conditions is a general requirement as groundwater frequently supports significant watershed features that are necessary components to the maintenance of a healthy watershed. The level of detail required in the water balance may vary depending on the site, proposed works, and nearby sensitive receivers.	Under pre-development conditions, including that of an open field, a hydrogeologic assessment of conditions must be completed to determine a feasible infiltration target. If the open field could not infiltrate 5mm, the post development cannot.
Discharge Criteria	The City of London design standards require that storm sewers are designed to convey, at a minimum, up to the 2-year storm event, using City of London standards per Section 5.	Suggest municipality retain 5-year event as minor system conveyance design.

1 Note: Figure and table references from guideline documents are not included herein.

3.3 Existing Village SWM Criteria

As outlined in *Municipality of Lambton Shores Municipal Development And Servicing Standards*, prepared by Lambton Shores, Updated December 2023 and **Table 3.4** [Design Standards]:

- A Stormwater Management Report setting out the existing and proposed drainage pattern shall be submitted to and approved by the Municipal Engineer, the local Conservation Authorities (the Municipality is divided between two Conservation Authorities; however the governing Conservation Authority for Grand Bend is the Ausable Bayfield Conservation Authority (ABCA)) and the Ministry of the Environment, Conservation and Parks.
- Should the development be of a size or location that the Conservation Authority has no requirement to regulate the stormwater management criteria, or in the event that specific design details are not provided by the Conservation Authority, the following general requirements shall apply:
    - Quantity control – as dictated by the local Conservation Authority and/or the MECP. Quantity control shall restrict post-development runoff flows to pre- development flows between the 2 year and regional storm events.
- Quality control shall be to MECP enhanced protection level (80% of suspended solids over long term average).
- The design storm for the minor systems shall be the 5 year storm for new local storm sewers. In some areas of the Municipality a 2 year storm may be used where approved by the Municipality. The major system shall be designed to convey the Regional storm event.
- Sediment and erosion control measures associated with the stormwater management requirements shall be identified on the drawings for works to be included during the construction and for permanent measures.

- For large site developments, utilize about 5% (minimum, up to what is required) of the proposed development lands for storm water ponding in order to satisfy retention and storage requirements. This will ideally be located in the lower areas. Areas utilized for temporary storm water storage should possibly be utilized as passive park or low use recreational land.
- Design development to maximize the travel time of storm water over pervious, rough and/or fairly flat surfaces. Maximizing the use of rear lot drainage is one such technique.
- Use of shallow grassy swales for storm water conveyance is recommended. They can be used beside roadways in conjunction with curbs, as well as for rear lot drainage.
- Utilizing inlets for temporary ponding and buried perforated pipe covered with porous material (granular or topsoil material) for infiltration may also be considered.
- The impact of climate change should be considered in consultation with the Municipality and the Conservation Authority.
- Restoration of the SWM facilities should have regard for Landscape Ecology and is to be reviewed with the Municipality prior to plan finalization.
- The storm sewers shall be connected to the Municipal storm sewer system (where feasible) or discharged to a natural watercourse as approved by the Municipality, Conservation Authority, and the Ministry of the Environment, Conservation and Parks.
- The stormwater management system shall be designed by using MIDUSS (current version) or an alternate approved hydrologic model. The Developer's Engineer shall consult the Conservation Authority as to the appropriate storm distribution and duration to be used. The Developer's Engineer shall advise the Municipal Engineer in writing as to the Authority's requirements. The design of the stormwater management system shall be in accordance with the latest version of the “Stormwater Management Practices, Planning and Design Manual”, as prepared by the Ministry of the Environment, Conservation and Parks.

Table 3.4 SWM Criteria Summary – Lambton Shores (Existing)

PARAMETER	CRITERIA	ARCADIS COMMENTARY
Water Quality and Erosion Control	Water Quality Control shall be to MECP enhanced protection level (80% of suspended solids over long term average). No specific erosion control criterion	Appropriate and current highest standard. Suggest retaining verbiage related to satisfying Conservation Authority criteria.
Quantity Control	As dictated by the local Conservation Authority and/or the MECP. Quantity control shall restrict post-development runoff flows to pre-development flows between the 2 year and regional storm events. The stormwater management system shall be designed by using MIDUSS (current version) or an alternate approved hydrologic model. The Developer's Engineer shall consult the Conservation Authority as to the appropriate storm distribution and duration to be used. The Developer's Engineer shall advise the Municipal Engineer in writing as to the Authority's requirements. The design of the stormwater management system shall be in accordance with the latest version of the “Stormwater Management Practices, Planning and Design Manual”, as prepared by the Ministry of the Environment, Conservation and Parks.	Control up to the Regional event seems excessive and impractical. Arcadis would recommend the 100-year be the typical standard. The model specified (MIDUSS) should be removed and replaced: • For Sites <2ha, the Rational Method/Modified Rational Method may be used for quantity control calculations. • For Sites >2ha, an approved hydrologic model (Visual OTTHYMO, PCSWMM, MIDUSS, etc.) should be used. Centralized SWM Facilities (like ponds) require application of a hydrology model.
Water Balance	n/a	

PARAMETER	CRITERIA	ARCADIS COMMENTARY
Discharge Criteria	The design storm for the minor systems shall be the 5-year storm for new local storm sewers. In some areas of the Municipality a 2-year storm may be used where approved by the Municipality. The major system shall be designed to convey the Regional storm event.	The standard design calls for the major system to convey the flows up to the 100-year design storm event. The Regional is a special case when dealing with riverine flooding and not generally applied to urban flooding situations.

3.4 Infill Development SWM Criteria

It is recommended that an extended detention component be added to the Municipality SWM criteria to supplement the SWMMP.

Broadly, modified/additional SWM Criteria shall encompass:

- Updated IDF Data
- Water Balance (Infiltration)
- Quality Control (Total Suspended Solids and Total Phosphorus)
- Extended Detention (25mm runoff)
- Quantity Control (Peak Flow Control)

3.4.1 Updated IDF Data

As part of previous TMs, an updated set of IDF curves/equations were developed. It is suggested that the existing IDF data be used to set pre-development hydrologic data, and the updated IDF data for analysis of post-development hydrologic performance.

Adjusted IDF values are presented for both the Rational Method (storm sewer sizing) and Chicago Storm (stormwater management quantity pond sizing) below in **Table 3.5** and **Table 3.6**, respectively.

Table 3.5 Updated IDF Values - Rational Method - ClimateChange.ca

IDF VALUE	2-YEAR	5-YEAR	10-YEAR	25-YEAR	50-YEAR	100-YEAR
A	27.9	36.4	42.0	49.1	54.4	59.6
B	-0.714	-0.724	-0.729	-0.734	-0.736	-0.738

Table 3.6 Updated IDF Values - Chicago Storm – ClimateChange.ca

IDF VALUE	2-YEAR	5-YEAR	25-YEAR	100-YEAR
A	891.8	1307.1	1843.1	2300.7
B	8.25	9	9	9
C	0.838	0.861	0.87	0.877

Updated IDF formulae were generated from time/intensity pairs using Visual OTTHYMO model.

3.4.2 Water Balance

A Site scale water balance analysis for each future development area should be completed as part of the Site Plan Application or Plan of Subdivision phase that follows the Thornthwaite and Mather water balance method outlined in Chapter 3 of the MECP's *Stormwater Management Planning and Design Manual* (MOE, 2003). The water balance method estimates evapotranspiration, infiltration, and runoff volumes based on soil type, vegetation cover, topography, and precipitation.

The Thedford station (ID# 612HKLR) is the closest meteorological station to the Study Area. Therefore, the climate normal data from this station in the most recent year with complete data, 2013, and the 30-year climate normal data between 1981 and 2010 should be obtained from Environment Canada and used in the water balance analysis.

The 2013 data should be compared with the climate normal data from this station between 1981 and 2010. The difference in annual temperature and precipitation values between the two data sets will be evaluated to identify current trends potentially caused by climate change.

The monthly mean temperature and monthly precipitation data are then used in the Thornthwaite and Mather Equation to estimate the monthly potential evapotranspiration. The estimated monthly potential evapotranspiration should be adjusted using a daylight correction value to account for varying length of daylight throughout the year.

The precipitation surplus (amount of water available to infiltrate or runoff) is then estimated by calculating the difference of the yearly precipitation and potential evapotranspiration. Infiltration is estimated by multiplying a set of infiltration factors (dependent on the topography, soil type and land cover) to the estimated precipitation surplus.

Impervious percentages for the pre-development and post-development scenarios were estimated by measuring the total impervious areas (including surface parking, concrete surfaces, walkways, and road surfaces) across the Site. The infiltration factor for each area should be selected from Table 3.1 in the MECP's *Stormwater Management Planning and Design Manual* (MOE, 2003) based on the summation of a range of factors (topography, soil type and land cover).

Post development infiltration should be matched to pre-development levels, where "pre-development" represents open field or "greenfield" conditions.

3.4.2.1 Proper Infiltration Practices

As noted in TM2, the Municipality provided available geotechnical reports, specifically within the northern downtown Village area, that include soil stratigraphy and groundwater level information. A high-level review of the reports determined that silty clay till with trace sand and gravel is the prevalent soil layer within the Study Area.

However, as per the Ontario Geological Survey-Map 2400 (1974), soil stratigraphy varies significantly throughout the Village of Grand Bend. Soil classes rendered on soil type for the Village area are shown in **Table 3.7**. Further hydrogeotechnical investigations would be required at specific locations of proposed Low Impact Developments to capture seasonal high groundwater levels and percolation rates.

Table 3.7 Modified Horton Method Soil Parameters for Grand Bend Study Area

SOIL TEXTURE CLASS	LOCATION	HYDROLOGIC SOIL GROUP	MAX. INFILTRATION RATE (MM/HR)	MIN. INFILTRATION RATE (MM/HR)	DECAY CONSTANT	DRYING TIME
Sand, Gravel	Most Of Rural Area	A	114.3	11.43	4.14	7
Silty Clay	Urban Area	C	25.4	3.81	4.14	7

Future development involving an increase in impervious area can reduce the annual volume of water infiltrating into the ground. Consequently, water balance calculations should be completed, and methods provided to ensure pre-development infiltration targets.

Any infiltration-based designs should follow the latest provincial guidelines on the subject. Currently, the MECP does not have an infiltration (LID) design manual. The generally accepted set of guidelines for Ontario is the *Low Impact Development Stormwater Management Planning And Design Guide*, Version 1.0, prepared by CVC and TRCA, dated 2010 [LID Manual]. The LID Manual or updates should be used as the basis for infiltration design in Grand Bend.

3.4.3 Quality Control

3.4.3.1 Total Suspended Solids

The water quality target is the long-term average removal of 80% of Total Suspended Solids (TSS) on an annual loading basis from all runoff leaving the proposed development site based on the post-development level of imperviousness.

3.4.4 Extended Detention

Provide for 24-48 hour detention of runoff from a 25mm storm. Given the size of a typical site plan development, the storage volumes involved may not be feasible to meet the detention time requirement; therefore, a minimum orifice plate size of 75mm is acceptable. Consultants should provide either a design for meeting the requirements or justification for why it is not achievable.

3.4.5 Quantity Control

When the % imperviousness of a development site under pre-development condition is higher than 50% (regardless of what the post-development condition is), the maximum value of C (Runoff Coefficient) used in calculating the pre-development peak runoff rate is to be limited to 0.5. The corresponding impervious level (I) is 50%.

Control 100-year post to 5-year pre, max C_{pre} = 0.50, or I = 50%.

3.5 SWM Criteria Summary

The following **Table 3.8** summarizes the proposed SWM Criteria for the Village.

Table 3.8 SWM Criteria – Lambton Shores (Proposed)

PARAMETER	CRITERIA	ARCADIS SUMMARY
Water Quality and Erosion Control	The water quality target is the long-term average removal of 80% of Total Suspended Solids (TSS) on an annual loading basis from all runoff leaving the proposed development site based on the post-development level of imperviousness. Provide for 24-48 hr detention of runoff from a 25mm storm. Given the size of a typical site plan development, the storage volumes involved may not be feasible to meet the detention time requirement; therefore, a minimum orifice plate size of 75mm is acceptable. Consultants should provide either a design for meeting the requirements or justification for why it is not achievable.	80% TSS Removal (Enhanced) Retain 25mm storm (if feasible)
Quantity Control	The 100-year storm is the level of protection for properties, where feasible, against surface flooding from ponding on streets, For development sites <2ha, the proponent may use a simplified approach such as the Rational Method / IDF curves to compute peak flows. The stormwater management system shall be designed by using MIDUSS (current version) or an alternate approved hydrologic model. The Developer's Engineer shall consult the Conservation Authority as to the appropriate storm distribution and duration to be used. The Developer's Engineer shall advise the Municipal Engineer in writing as to the Authority's requirements. The design of the stormwater management system shall be in accordance with the latest version of the “Stormwater Management Practices, Planning and Design Manual”, as prepared by the Ministry of the Environment, Conservation and Parks.	Control 100-year post to 5-year pre.
Water Balance	Post development infiltration should be matched to pre-development levels, where “pre-development” represents open field or “greenfield” conditions.	Post to pre on an annual basis
Discharge Criteria	The design storm for the minor systems shall be the 5-year storm for new local storm sewers. In some areas of the Municipality a 2-year storm may be used where approved by the Municipality. The major system shall be designed to convey the 100-year storm event.	Arcadis would recommend the 5-year sewer be used for all minor systems and 100-year as the overland criterion
Climate Change	Use existing IDF data be used to set pre-development hydrologic data, and the updated IDF data for analysis of post-development hydrologic performance.	

4 Collaborative Planning

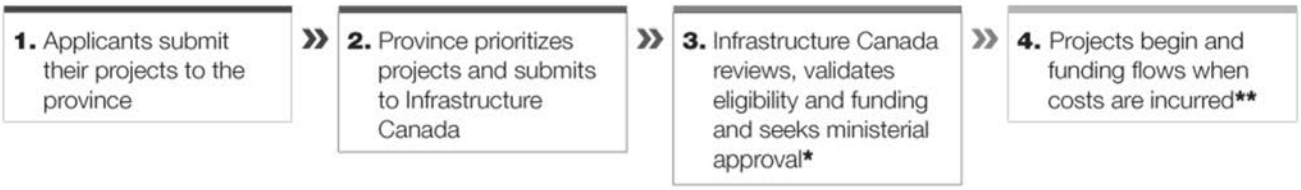
4.1 Budget Forecast and Allocation

4.1.1 Possible Funding Sources

Various governmental organizations are potential funding sources for storm sewer infrastructure projects that a municipality may do.

4.1.1.1 Canada Infrastructure Program

The Investing in Canada Infrastructure Program is administered through a bilateral agreement with Ontario. Projects are cost-shared with the provincial government, municipalities, Indigenous communities, and other partners.



In 2016, Canada and Ontario signed an initial agreement under the Investing in Canada plan to invest more than $2 billion in federal funding for the rehabilitation, repair, and modernization of existing infrastructure to provide communities with more reliable water and wastewater systems and improve public transit systems across the province.

In 2018, a second agreement (Integrated Bilateral Agreement for the Investing in Canada Infrastructure Program, Canada – Ontario) was signed to provide more than $11 billion in federal funding over the next decade (i.e. until 2028) for long-term infrastructure projects through four streams:

1. Public Transit Infrastructure,
2. Green Infrastructure,
3. Community, Culture & Recreational Infrastructure and
4. Rural & Northern Infrastructure.

Projects eligible for green infrastructure stream contribution funding under this Agreement must meet at least one of the outcomes in the Green Infrastructure Outcomes Table. Under the Environmental Quality Outcomes is “Increased capacity to treat and/or manage wastewater and stormwater”, which the recommendations of this Master Plan appear to meet.

More information about the program is available at https://www.infrastructure.gc.ca/prog/agreements-ententes/2018/2018-on-eng.html#6

Canada agreed to provide contribution funding to Ontario under the green infrastructure stream of the Program in a total amount not to exceed $2,245,764,810 to be paid in accordance with Schedules A.1 (General Program Requirements) and A.3 (Green Infrastructure), which is accessible here: https://www.infrastructure.gc.ca/prog/agreements-ententes/2018/2018-on-eng.html#scheda

Fiscal Year Breakdown

Canada's total contribution funding for all Projects under the green infrastructure stream will be allocated in accordance with the estimated maximum amounts in the Green Infrastructure Fiscal Year Breakdown Table (**Table 4.1**), as amended through administrative processes:

Table 4.1 Green Infrastructure Fiscal Year Breakdown Table

FISCAL YEAR	CANADA ($M)
2024 – 2025	$276.3943
2025 – 2026	$362.6761
2026 – 2027	$396.3114
2027 – 2028	$472.8439

Fiscal Year = period beginning on April 1st of a calendar year and ending on March 31st of the following calendar year.

As noted in https://www.infrastructure.gc.ca/prog/agreements-ententes/2018/2018-on-eng.html#4

Ontario will be responsible for the complete, diligent, and timely implementation of this Agreement, within the funding limits and deadlines specified in this Agreement and in accordance with the terms and conditions of this Agreement.

Unless Ontario is the Ultimate Recipient, Ontario will enter into an Ultimate Recipient Agreement with each Ultimate Recipient and ensure that Ultimate Recipient Agreements are consistent with but are no less favorable to Canada than the relevant provisions of this Agreement. Where Ontario is an Ultimate Recipient, Ontario will be subject to all terms and conditions set out in this Agreement.

Where Ontario is the Ultimate Recipient, Ontario will ensure that all Projects are Substantially Completed by October 31, 2027. For all other Projects, Ontario will ensure that Ultimate Recipient Agreements require that Projects are Substantially Completed by October 31st, 2027.

Ontario will be responsible for identifying and prioritizing eligible projects through engagement with local and regional governments, and Indigenous Ultimate Recipients as described in section A.1 a) (Ultimate Recipients) and submitting eligible projects to Canada for approval.

Ontario will prioritize, to the satisfaction of Canada and Ontario, the submission of eligible projects for Canada's approval that support the key actions that are identified as part of Ontario's commitments under the Pan-Canadian Framework on Clean Growth and Climate Change.

4.1.1.2 Clean Water and Wastewater Fund Program Overview

Although the program ended in 2019, a similar program may become available in the future.

Examples of eligible projects include:

- Rehabilitation of water treatment and distribution systems;
- Rehabilitation of wastewater and storm water collection;
- Separation of existing combined sewers and/or combined sewer overflow control;
- Optimization and improved asset management, including studies and pilot projects related to innovative and transformative technologies;

- Design and planning for upgrades to wastewater treatment infrastructure to meet applicable regulatory requirements; and,
- Construction of naturalized systems for management and treatment of wastewater and storm water.

Ontario

- Contact Person: Infrastructure Ontario
- Phone number: 1-844-803-8856
- Email: CWWF@infrastructureontario.ca

4.1.2 Alignment with Other Municipal Projects

We recommend that in future, stormwater enhancements be evaluated in the context of any proposed road improvements (local Road Needs Studies are completed every few years, and other relevant documents) to minimize both costs and potential local disruption to residents and selected accordingly.

5 Conclusion

5.1 Recap of the Implementation Plan

Lambton Shores does not currently have a detailed plan for proposed future municipal works related to road improvements; therefore, we recommend that in future, stormwater enhancements be evaluated in the context of the proposed road improvements to minimize both costs and potential local disruption to residents, and selected accordingly.

Areas requiring remedial action were identified in TM3 and **Table 2.2** above. These measures are essentially a combination of storm sewer upsizing, installation of additional catchbasins, and inlet control devices, alone or in combination.

Revised Village SWM Criteria are outlined in Section 3, primarily consisting of:

- Quality Control – Continued Enhanced Protection;
- Water Balance – Adding a post to pre requirement;
- Extended Detention – Retention of runoff from a 25mm storm (where feasible); and,
- Quantity Control – Post to pre for all storms.

5.2 Next Steps and Recommendations

Recommendations should be implemented when roadworks are planned by the Municipality.

Recommendations include the remedial measures outlined in **Section 2** above.

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8133 Warden Avenue, Unit 300
Markham, Ontario L6G 1B3
Canada
Phone: 905 763 2322
www.arcadis.com

Appendix E

Municipal Class Environmental Assessment Materials

The Municipality of Lambton Shores

Sign In Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Please provide your name below. Thank you for attending the public meeting.

Please Print

LARRY WALLS
BOB FAULHAFER
CHRIS ZETTLER
TONY MARRANCA
Brian DeNeire
PATRICK & MAXINE Eveland
Dianne Taylor
Harry Lund
KEN KOPP
Wayne Schaefer
(10) KEB FIDLER
Brad Lewis
Doug ~~Hurst~~ HURST
JASON DYKSTRA
Doreen Pedlar
Mary Lynn MacDonald
Source Water Protection / ABCA
Jeremy Straw
David Cady Eleanor Boyle
(20) Fran Watts
Cathy Henderson
JEFF Kirpan

[redacted]

The Municipality of Lambton Shores

Sign In Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Please provide your name below. Thank you for attending the public meeting.

Please Print

ARCADIS | IBI GROUP

STORMWATER MANAGEMENT MASTER PLAN – VILLAGE OF GRAND BEND

JULY 20,2023

WELCOME TO THE PUBLIC INFORMATION CENTRE

- Information related to this project (including materials displayed here) are available for public review on Lambton Shores' website.
- Please sign in
- Please review the information boards and provide comments on the sheet provided. You may submit your comments by mail/email or place them in the Comment box located on the sign-in table.
- All comments for this Information Centre must be received by August 17, 2023 to be given consideration in the development of the preferred solution for this project. Contact Information for the Project Team is available below and on the comment sheet.

Project Team

This study have been initiated by the Municipality of Lambton Shores. Arcadis-IBI Group has been retained as the Lead Consultant on the project.

RJ0

MUNICIPALITY OF LAMBTON SHORES
Sam Shannon
Infrastructure Manager
519-243-1400 Ext. 8215
sshannon@lambtonshores.ca

ARCADIS-IBI GROUP
Roy Johnson
Senior Project Manager
Roy.johnson@ibigroup.com

ACKNOWLEDGEMENT OF ANCESTRAL LANDS

We acknowledge that this land on which we are gathered today is part of the ancestral land of the Chippewa, Odawa, and Potawatomi peoples, referred to collectively as the Anishinaabeg. It is through the connection of the Anishinaabeg with the spirit of the land, water and air that we recognize their unique cultures, traditions, and values. Together as treaty people, we have a shared responsibility to act with respect for the environment that sustains all life, protecting the future for those generations to come.

Language Pronunciations:
Anishinaabeg (ah-nish-i-nah-beg)
Chippewa (chip-uh-wah)
Odawa (o-dah-wah)
Potawatomi (pot-uh-wah-tuh-mee)

BACKGROUND AND PROJECT OBJECTIVES

The Municipality of Lambton Shores' [Municipality] Village of Grand Bend [Village] requires the completion of a Stormwater Management [SWM] Master Plan [SWMMP].

This is the first SWMMP for the Municipality and will identify current deficiencies and guide the implementation of stormwater drainage improvements now and into the future.

The outcome of this project will identify areas of concern; flow and water quality controls; system structural improvements; and operational improvements, as well as establish level of service and performance metrics.

The final SWMMP will be crafted with the Municipality input based on technical analysis and modelling using a municipality-wide model that includes all stormwater drainage features (minor/major) while taking into consideration other Municipality projects/initiatives for a strategic approach to stormwater drainage improvements and implementation.

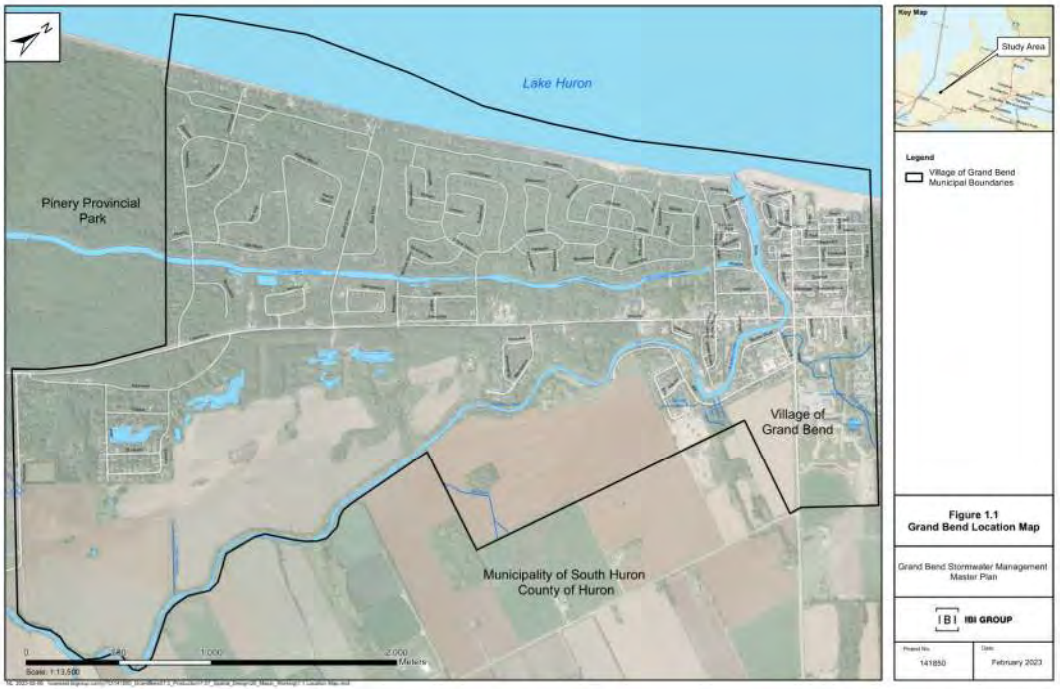


Figure 1.1 shows the area included as part of the SWMMP

PURPOSE, PROBLEM AND PROCESS

Purpose

This Public Information Centre is intended to:

- Present the Problem / Opportunity Statement for the Project; Introduce the members of the Project Team;
- Present the scope of the Class Environmental Assessment (Class EA) process;
- Present existing conditions and areas of concern; and,
- Obtain feedback from local residents, property owners and community groups.

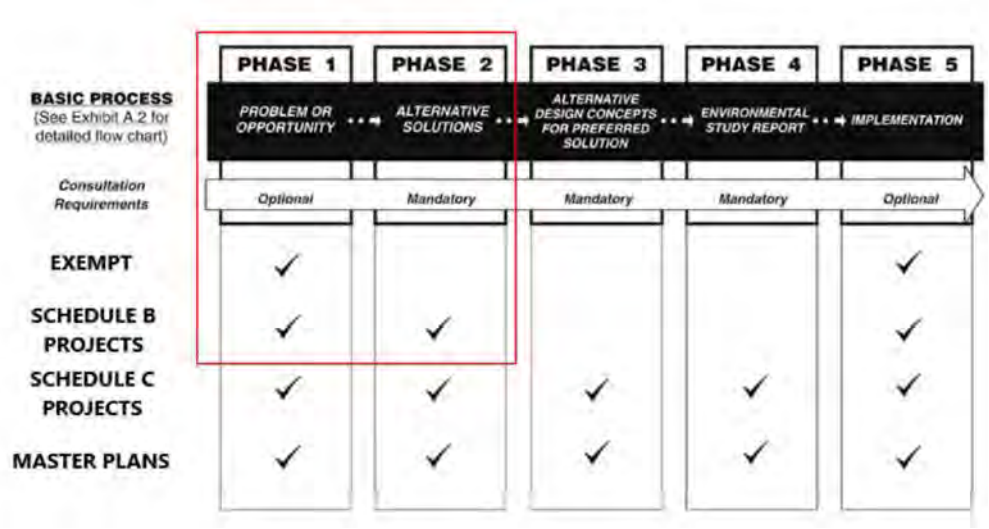
Problem/Opportunity Statement

This SWM Master Plan will identify current deficiencies and guide the implementation of stormwater drainage improvements now and into the future.

Environmental Assessment (EA) Master Plan Process

This project will follow the planning process set out in the Municipal Engineers Association's Municipal Class Environmental Assessment (Class EA) for Master Plans (Approach #2). Master Plans are to follow the same process as a 'Schedule B' and include at least Phase 1 and 2.

- Master Plans are defined as: A long range plan which integrates infrastructure requirements for existing and future land use with environmental assessment principles. At a minimum, a Master Plan addresses Phases 1 and 2 of the Municipal Class EA process.
- Given the Master Plan will minimally cover Phases 1 and 2, all projects identified in the Master Plan that are 'Schedule B' will be considered complete through the EA Process and may proceed to construction. Projects identified as 'Schedule C' will have to complete Phases 3 and 4 before they may proceed to construction.
- For 'Schedule B' projects, only one point of Public Consultation is required. Given the nature of this project, however, the Project Team has elected to increase the level of public consultation (over and above the minimum requirement), and host an extra Public Information Centre, creating a total of two Public Consultations Checkpoints for this project.
- A copy of the MCEA document is on-site and is available for review by the public.



GLOSSARY OF TERMS 1/2

- ABCA = The Ausable Bayfield Conservation Authority (ABCA) is an independent, corporate body in Southwestern Ontario on the southeast shores of Lake Huron. It is one of Ontario's 36 conservation authorities with the mandate to ensure the conservation, restoration and responsible management of Ontario's water, land and natural habitats through programs that balance human, environmental and economic needs.
- EA = Environmental Assessment.
- LID = Low Impact Development, a stormwater management strategy that seeks to mitigate the impacts of increased runoff and stormwater pollution by managing runoff as close to its source as possible. LID comprises a set of site design strategies that minimize runoff and distributed, small scale structural practices that mimic natural or predevelopment hydrology through the processes of infiltration, evapotranspiration, harvesting, filtration and detention of stormwater.
- Master Plan = A long-range plan which integrates infrastructure requirements for existing and future land use. The Master Planning process must follow, at a minimum, the same steps of the first two phases of the MCEA process.
- MECP = Ministry of Environment, Conservation, and Parks.
- OGS = Oil-grit separator (a type of manhole to catch suspended solids).

GLOSSARY OF TERMS 2/2

- O&MM = Operation and Maintenance Manual which outlines inspection procedures, cleanout methods, etc. for stormwater infrastructure like stormwater management ponds.
- SWM = Stormwater Management.
- Stormwater Management:
  Means the management of stormwater run-off and may include:
  - the collection and transport of stormwater run-off, e.g., storm sewers; facilities which attenuate the hydrograph and detain stormwater runoff, e.g., detention/retention, infiltration.
  - facilities and means to treat and address the quality of stormwater run-off.
  - water management facilities which minimize impacts of wave action, flooding, erosion and bank and valley wall instabilities.
  - facilities which affect fisheries, such as fish ladders, wetlands operation and maintenance of the above.
- Stormwater Management Plan

  Establishes the selection of Best Management Practices, the specifics for design of control facilities and the details of protection measures and/or enhancement of rehabilitation programs to meet the objectives set by the Watershed and Subwatershed Plans.
- SWMF = Stormwater Management Facility (pond or other).
- SWMMP = SWM Master Plan.
- TP = Total Phosphorus, consisting of suspended and dissolved phosphorus, is a nutrient which, in excess amounts, has detrimental effects on aquatic health.

PURPOSE OF MASTER PLAN



The SWM Master Plan (SWMMP) shall be an integrated approach that considers flood and erosion control, groundwater and surface water quality management, natural heritage environment management and infrastructure.

The plan shall integrate existing policies, regulations, acts and guidelines and where appropriate develop new policies and design guidelines to aid in implementation and shall do so within a water sustainability context.



Image showing bank erosion in Credit River
Source: City of Mississauga Credit River Erosion Control Study

STORMWATER MANAGEMENT

Why manage stormwater?

The ultimate goal of stormwater management is to maintain the health of streams, lakes and aquatic life as well as provide opportunities for human uses of water by mitigating the effects of urban development. To achieve this goal stormwater management strives to maintain the natural hydrologic cycle, prevent an increased risk of flooding, prevent undesirable stream erosion, and protect water quality.

STORMWATER ISSUE AREAS

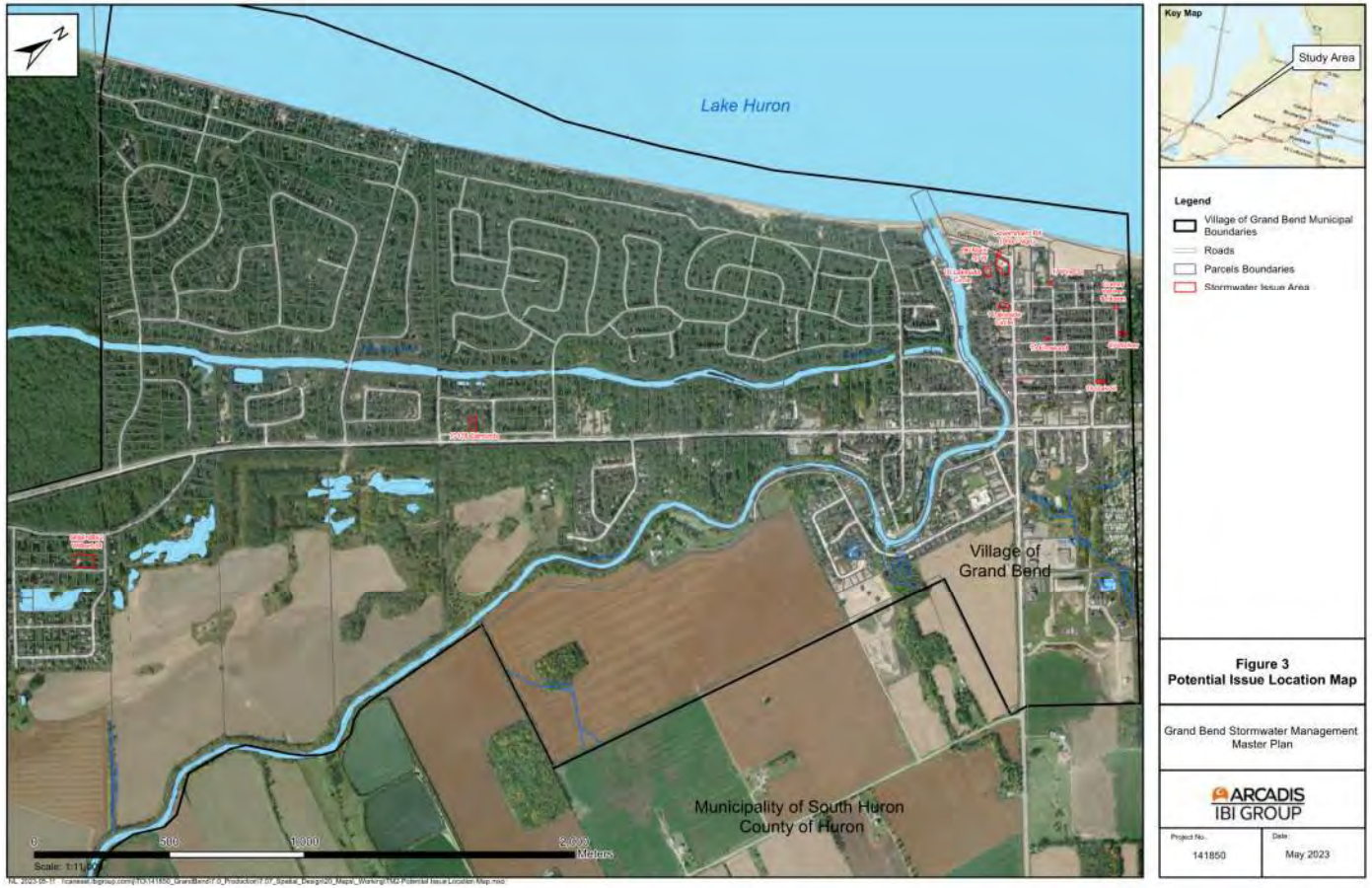


Figure 3 Showing known areas identified by the Municipality as experiencing flooding during rainfall events.

STORMWATER MANAGEMENT OBJECTIVES

Based on a review of the available information on the watershed, the following objectives were developed for the SWMMP:

- **Quantity Control**: Control post-development to pre-development levels for all storms up to 100-year return period before discharge to rivers.
- **Erosion Control**: Detain minimum 25 mm over 24 hours.
- **Water Balance**: Emulate pre-development water balance infiltration volumes on an annual basis.
- **Water Quality**: Provide 80% TSS Removal. The ABCA discourages the use of OGS as a means of stormwater treatment, favoring other alternatives (LID, Infiltration, etc.) Reduce total Phosphorus loadings.



Source: Photograph of Hilltop Community SWM Pond A taken by Cole Engineering Group Ltd.

LIST OF ALTERNATIVES

Do Nothing: With the “Do Nothing” approach, existing SWMFs are left “as is” and Future Settlement Areas are developed without SWM measures. That strategy would result in water balance deficit, reduced baseflows, increased erosion, increased peak flows, and increased phosphorus loading.

New/Retrofit Storm Sewers: Areas experiencing flooding may be alleviated by the installation of new or larger storm sewers. Only addresses conveyance, not quality control, etc.

Traditional SWM Strategy (Ponds): Reduces high flow rates and erosion potential and phosphorus loading, therefore reducing damage to the environment and property. Ponds do not increase baseflow, improve infiltration, or reduce runoff volumes.

Traditional SWM with Best Management Practices [BMP] Implementation Strategy: This approach consists of SWM ponds in conjunction with BMPs/Low Impact Developments [LID]. This combination can reduce water balance deficit, decrease volumetric runoff, increase baseflow, reduce erosion, reduce peak flows, and reduce phosphorus loading.

Traditional SWM with Retrofit Strategy: This approach consists of SWM ponds in conjunction with BMPs/LIDs; as well as retrofitting of existing SWMFs, or application of BMPs in areas with SWMFs. This combination can reduce water balance deficit, decrease volumetric runoff, increase baseflow, reduce erosion, reduce peak flows, and reduce phosphorus loading

ALTERNATIVE SOLUTIONS

Alternative 1: *New storm sewers* in areas that currently have only open bottom catchbasins and overland flow. Improving drainage may also require a storage feature to control flow to a rate that the receiving downstream drain can handle.

Alternative 2: *Improve Minor Systems* (catchbasins, drains, pipes, culverts) for areas experiencing ponding, increasing storm sewers sizes or providing new storm sewers with traditional catch basins and manholes may help alleviate the issue, provided there is sufficient downstream capacity.

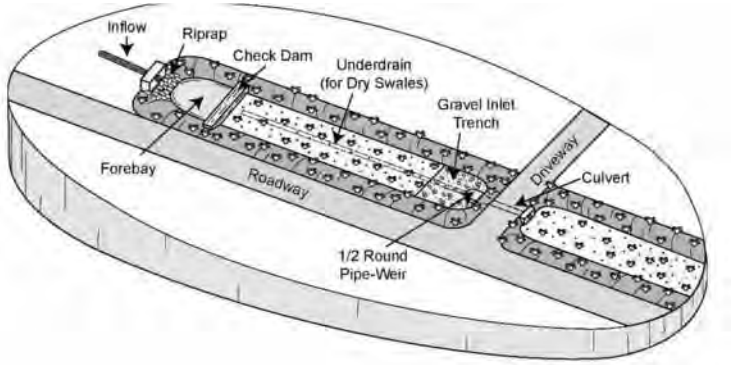
The existing system in the western areas do not meet today's standards for new developments. This Study does not intend to replace the overall existing drainage system to meet current standards, but to evaluate the existing system and consider improvements to address parts of the system that are problematic.



Storm Sewer Pipes. Source: https://armtec.com/case-studies/markham-storm-sewer/

ALTERNATIVE SOLUTIONS

Alternative 3: Use *Low Impact Development* to reduce nuisance flows to the storm sewer system, improve water balance, water quality, and erosion control.



Dry Swale. Source: LID Manual

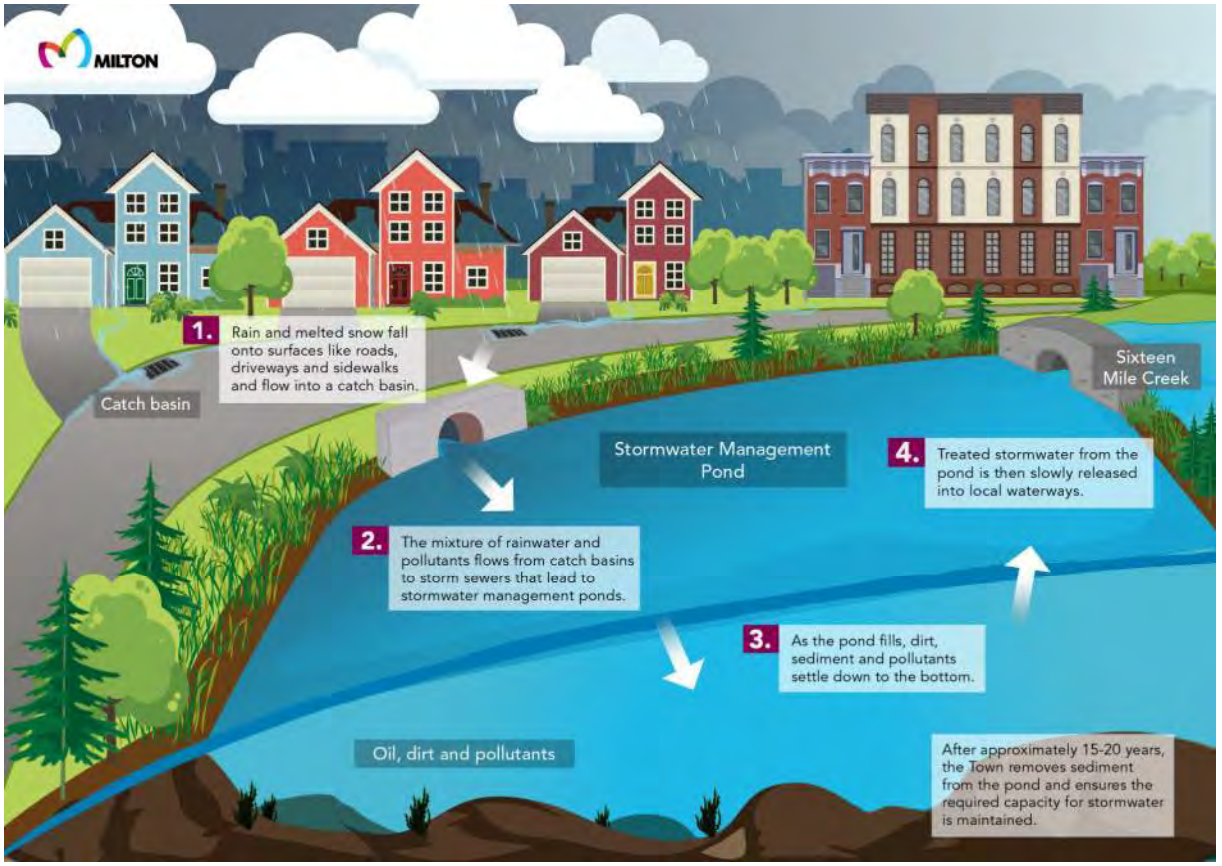


Curb extension or "bump-out". Captures runoff from road and provides infiltration, water quality improvements, and erosion control. Source: https://wiki.sustainabletechnologies.ca/wiki/Curb_extensions:_Gallery

ALTERNATIVE SOLUTIONS

Alternative 4: *Retrofit existing ponds* and/or new ponds to improve function, increase peak flow control, improve water quality and erosion control.

Alternative 5: *A combination* of Alternatives 1-4 to address specific concerns in each area.



What a SWM Pond does. Source: https://www.milton.ca/en/business-and-development/stormwater-management-ponds.aspx

YOUR FEEDBACK IS IMPORTANT!

We want to hear from you!

Please let us know if you have experienced any of the following with the Study Area (see Board):

- Frequent and/or extended duration of ponding after rain events?
- Ponding depths that exceed 0.3 metre (1 foot)?
- Flooding in your home or business? Does this occur at a certain time of year, or a particular date you can identify?

We encourage you to fill out a comment sheet with any information and locations regarding drainage issues within the Study Area.

NEXT STEPS

- All comments from today's meeting will be reviewed by the Project Team and used to help define the Preferred Solutions.
- A second PIC will be held in late summer 2023 to present the Preferred Solutions.
- All comments from the second PIC will be reviewed by the Project Team and used to help define the Preferred Solutions. The project website will be updated and a Notice will be published, alerting the public that the 30-day public review period for this Class EA has commenced.
- If there are no outstanding issue or Part II orders, all 'Schedule B' projects identified in this Master Plan my proceed to final design, approvals and construction upon completion of the 30-day public review period.
- Projects identified as 'Schedule C' in the Master Plan must complete Phases 3-5 of the Municipal Class EA process before proceeding to design/approvals/construction.

Please fill out your comment sheet so that your questions or concerns can be addressed through this EA Process.

PRIVACY INFORMATION

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the Ministry of the Environment, Conservation and Parks for the purpose of transparency and consultation. The information is collected under the authority of the Environmental Assessment Act or is collected and maintained for the purpose of creating a record that is available to the general public as described in Section 37 of the Freedom of Information and Protection of Privacy Act.

Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential.

For more information, please contact the Project Office or the Ministry of the Environment's Freedom of Information and Privacy Coordinator at 416-327-1434.



THANK YOU!

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Roy.johnson@ibigroup.com

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN



masterplan.aspx&data=05%7C01%7Croy.johnson%40arcadis.com%7C411cf26cd4d9445e238108db9dbbb2f3%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C638277201722799335%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=7A2dS30ojHNgTzUaLwfjp6hGf5CoB92JnOhnrCneujs%3D&reserved=0

This email was sent to you by Mary Chevreau<chevreau.mary@gmail.com> through https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.lambtonshores.ca%2F&data=05%7C01%7Croy.johnson%40arcadis.com%7C411cf26cd4d9445e238108db9dbbb2f3%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C638277201722799335%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=2n3Jjs78uPmI1h8VQ1vrxZkTuieIXRjkPWEOkwzEjQY%3D&reserved=0.

Johnson, Roy

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Thursday, August 17, 2023 9:26 AM
To: Johnson, Roy
Subject: FW: 2022-21 - Grand Bend Stormwater Management Master Plan - Project Comments

THE MUNICIPALITY OF LAMBTON SHORES

Sam Shannon
Infrastructure Manager

9577 Port Franks Road
Thedford, ON N0M 2N0
(P) 519-243-1400 Ext.8215
or 1-866-943-1400
www.lambtonshores.ca

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From: Cathy Henderson [redacted]
Sent: Thursday, August 17, 2023 9:25 AM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: Re: 2022-21 - Grand Bend Stormwater Management Master Plan - Project Comments

I give my consent to share my comments publicly.

Catherine Henderson
[redacted]

Sent from my iPad

> On Aug 15, 2023, at 2:45 PM, Sam Shannon <sshannon@lambtonshores.ca> wrote:
>
> To Whom It May Concern,
>
> You are receiving this email because you provided comments either based on the Public Information Centre that took place on July 20th (2023) or separately based on the ongoing Stormwater Management Master Plan Arcadis/IBI is currently undertaking on our behalf. In order to properly form part of the project file and comply with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA), I am asking that folks fill out the attached Comment Sheet (if not done so already) and either send it to myself or Roy (copied in this email) through scan or photographs. We value the comments being provided and just want to ensure they properly make there way into project.

Alternatively, folks will need to follow up with me individually consenting that their comments may form part of the public record (not including personal information).

If the above is not completed, it risks us not being able to properly include comments while remaining compliant with the Environmental Assessment Act and process.

Please do not hesitate to contact me should you have any questions.

Regards,

<image001.png>

Sam Shannon
Infrastructure Manager

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Thedford, ON N0M 2N0
(P) 519-243-1400 Ext.8215
or 1-866-943-1400
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<image002.jpg>
<image003.jpg>

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<141850_CommentSheet.pdf>

Johnson, Roy

From: Harry Grund [redacted]
Sent: Wednesday, August 16, 2023 6:55 AM
To: Sam Shannon; Roy.Johnson@ibigroup.com
Cc: Dianne Taylor
Subject: Re: 2022-21 - Grand Bend Stormwater Management Master Plan - Project Comments

You don't often get email from hgrund320@gmail.com. Learn why this is important

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hello Sam and Roy,

Please consider this email as our consent to our comments (per our Aug 10 email) being included in the public record for this project.

If you need any further info, please advise.

Sincerely,
Dianne Taylor and Harry Grund
[redacted]
[redacted]

On Tue, 15 Aug 2023 at 14:45, Sam Shannon <sshannon@lambtonshores.ca> wrote:

> To Whom It May Concern,
>
> You are receiving this email because you provided comments either based on the Public Information Centre that took place on July 20th (2023) or separately based on the ongoing Stormwater Management Master Plan Arcadis/IBI is currently undertaking on our behalf. In order to properly form part of the project file and comply with the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA), I am asking that folks fill out the attached Comment Sheet (if not done so already) and either send it to myself or Roy (copied in this email) through scan or photographs. We value the comments being provided and just want to ensure they properly make there way into project.
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> Alternatively, folks will need to follow up with me individually consenting that their comments may form part of the public record (not including personal information).
>
> If the above is not completed, it risks us not being able to properly include comments while remaining compliant with the Environmental Assessment Act and process.

Please do not hesitate to contact me should you have any questions.

Regards,

THE MUNICIPALITY OF
LAMBTON SHORES

Sam Shannon

Infrastructure Manager

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The Municipality of Lambton Shores

Comment Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Thank you for attending the public meeting. Please provide your comments on any of the material presented.

See Page 2

(Please turn over if additional space is required.)

Please complete your comment sheet this evening and place in the comment box provided OR send your completed comment sheet by **August 17, 2022** to:

Sam Shannon
Infrastructure Manager
E: sshannon@lambtonshores.ca

Roy Johnson, P.Eng., Senior Project Manager, Water Resources Engineering
Arcadis IBI Group
E: roy.johnson@ibigroup.com

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ROB FIDLER

[redacted]

Address GRAND BEND NOM 1T0

City / Town Postal Code

[redacted]

Email Address

Please check a box if you would like to be added to our mailing list to be informed of the publication of the EA.

☐ mailing address ☒ email

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND PG2

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Stormwater Management

Rob Fidler

Wed 2023-08-09 4:43 PM

To:sshannon@lambtonshores.ca <sshannon@lambtonshores.ca>

Hi Sam,
The following are some concerns in regards to the stormwater management. Since we reside at 20 Erin Place, they will be
limited to the area know as the Gill Farm which is to the south of Erin Place.

First, the amount of run-off from the farm located in South Huron , just east of the Gill Farm. It would seem that storm
runoff from that farm comes thru the northerneastern area of the Gill Farm. This have been evident during heavy rains but was
most evident during the last major storm around the end of July. Since the farmer is practicing no-till farming, there was a large
amount of last year's corn stalk debris that ended up on the north edge of the Gill Farm , inhibiting water flow. As a matter of fact, we actually had some of this debris in the field directly behind our residence. It also clogged the culvert at the entrance to Harbourside Condos.

The other area of concern is the surface runoff of the Gill Farm. It all runs to the north end of the field which should be alleviated by the ditch at the south side of Erin Place. However, it would seem that the field has old tiling for drainage which is
broken/clogged as there are multiple areas where the water bubbles up thru the ground from the hydrostatic pressure within
the tiling system. This was still evident a few days after the rain event, thereby becoming surface water instead of being routed to
proper drainage. As a matter of fact, as I write this, there is still an area of surface water ponding behind 22 Erin.

Please include me on the mailing list of the EA via email.

Thanks
Rob Fidler [redacted]

Johnson, Roy

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Tuesday, August 15, 2023 2:16 PM
To: Roy Johnson
Subject: FW: Water Issues for residents on Alberta Street

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Sam Shannon
Infrastructure Manager

9577 Port Franks Road
Thedford, ON N0M 2N0
(P) 519-243-1400 Ext.8215
or 1-866-943-1400
https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.lambtonshores.ca%2F&data=05%7C01%7Croy.johnson%40arcadis.com%7C411cf26cd4d9445e238108db9dbbb2f3%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C638277201722799335%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Lb7j7U%2Bjda4%2BmqUpyMOuuaok4YBqILiQBcc32Sm3Jpo%3D&reserved=0

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-----Original Message-----
From: noreply@lambtonshores.ca <noreply@lambtonshores.ca> On Behalf Of Mary Chevreau
Sent: Tuesday, August 15, 2023 12:59 PM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: Water Issues for residents on Alberta Street

Hi Sam,
As homeowners at 44 Alberta Street, Grant Bend, we are writing to alert you to the ongoing water issues many of us are experiencing on our properties. While water often accumulated in our yards during the traditional Spring thaw, we are now experiencing significant ongoing flooding throughout the summer, leaving many of our properties under water and unusable. May property owners suspect the change in water level has a direct correlation to new builds along Lake Street, where water is now being diverted onto our properties. Without a stormwater system, the water simply has nowhere to go.
While some homes are able to drain into the adjacent pond (apparently grandfathered to do so years ago), most homeowners have no such permission.

We are writing to ask for a thorough investigation into the flooding and for a swift response.

Thank you for your consideration and review - we look forward to your response.

Origin: https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.lambtonshores.ca%2Fen%2Four-government%2Fgrand-bend-stormwater-management-

The Municipality of Lambton Shores

Comment Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Thank you for attending the public meeting. Please provide your comments on any of the material presented.

please see second page.

(Please turn over if additional space is required.)

Please complete your comment sheet this evening and place in the comment box provided OR send your completed comment sheet by **August 17, 2022** to:

Sam Shannon
Infrastructure Manager
E: sshannon@lambtonshores.ca

Roy Johnson, P.Eng., Senior Project Manager, Water Resources Engineering
Arcadis IBI Group
E: roy.johnson@ibigroup.com

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Jeff Krpan

[redacted]

Address Grand Bend, Ontario N0M 1T0

[redacted] ostal Code

Please check a box if you would like to be added to our mailing list to be informed of the publication of the EA.

☐ mailing address ☒ email

I am having some serious flooding issues on my property, 50 Shoreline Rd N. I'm on the corner of Shoreline and Lake Rd.

Shoreline Road seems to be angled towards a dry storm sewer in front of my house. When it rains, all the rain from the road flows over the storm drain (as it filled within seconds, even after the work team came and cleaned it out) which it has for years when my Mother owned our house. Mom called the township many times but she didn't pursue it.

I'm have 2 videos, one of a 'lighter' rain coming down my path, and a 2nd which shows the road part.

I'm wondering if a temp curb installed along the front of my property from neighbours driveway to the corner, and adding a grass boulevard on Lake Rd which my neighbour to that side had put in by the township I think. I think both would prevent the pathway problem, and the driveway.

The driveway problem is, again the road in front, and the rain on Lake Rd is pouring into my driveway causing pooling, and some flooding on the property. The recent heaviest rain from the road, along with my eavestrough, flooded the basement. I think if the rest of the boulevard was built up a bit with grass, this could prevent this.

In so saying all this, I, and neighbours, don't want the character or size, of Shoreline Rd N changed, just fixed
Thanks, Louise

The Municipality of Lambton Shores

Comment Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

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Sam Shannon
Infrastructure Manager
E: sshannon@lambtonshores.ca

Roy Johnson, P.Eng., Senior Project Manager, Water Resources Engineering
Arcadis IBI Group
E: roy.johnson@ibigroup.com

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[redacted]

Address [redacted] Grand Bend

City/Town [redacted] Postal Code N0M 1T0

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☐ mailing address ☑ email

The Municipality of Lambton Shores

Sign In Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Please provide your name below. Thank you for attending the public meeting.

Please Print

LARRY WALLS
BOB FAULHAFER
CHRIS ZETTLER
TONY MARRANCA
Brian DeNeire
PATRICK & MAXINE Eveland
Dianne Taylor
Harry Lund
KEN KOPP
Wayne Schaefer
(10) KEB FIDLER
Brad Lewis
Doug ~~Hurst~~ HURST
JASON DYKSTRA
Doreen Pedlar
Mary Lynn MacDonald
Source Water Protection / ABCA
Jeremy Straw
Dave Cady Elaine Boyle
(20) Fran Tufts
Cathy Henderson
JEFF Kirpan

[redacted]

The Municipality of Lambton Shores

Sign In Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Please provide your name below. Thank you for attending the public meeting.

Please Print

Grand Bend Stormwater Management Plan

Input from a Harbourside Resident Regarding Stormwater Flood Protection

Content

- Executive Summary
- Recommendations to Optimize Stormwater Management Plan
- Background Information
  - Stormwater Flooding and Run-off
  - 100 Year Flood vs. Recurrence Intervals
  - Stormwater Flood Prevention and Management
  - Environmental Assessment Act
- Key Takeaways

Executive Summary

- Generally, stormwater management is required to mitigate the effects of urbanization on the hydrologic cycle including increased runoff and decreased infiltration of rain and snowmelt. Without proper stormwater management, reduced baseflow, degradation of water quality, and increased flooding and erosion can lead to reduced diversity of aquatic life, fewer opportunities for human uses of water resources, and loss of property and human life.

- Respecting the afore-mentioned, the purpose of this package is to highlight the current stormwater system issues, recommendations, and/or deficiencies impacting property specifically related to the Grand Bend - Harbourside subdivision (Erin Place) residential community/area located within the Grand Bend Stormwater Management Master Plan identified in the ARCADIS – IBI Group presentation dated 20 July, 2023, Figure 3, Potential Issue Location Map, Project No. 1418XX, dated May 2023.

Executive Summary

- This package provides Issues to be Addressed to Achieve the Guiding Principle from the residents' point of view and requires the appropriate corrective action as prescribed by the applicable engineering, government jurisdiction, and policy experts

  Guiding Principle is "To execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection."

- This package is intended to complement areas of concern by the residents' as it relates to stormwater flow and run-off controls, stormwater system structural and functional improvements as well as establish stormwater system residential and municipality responsibilities, ownership, and compliance
- The residents will be seeking from the Municipality an expedited plan to address and mitigate the various stormwater issues which they continue to experience since Y2015

Executive Summary

- The Background Information and Key Takeaway material has been provided to support the residents' Recommendations to Optimize Stormwater Management Plan

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
1	Execute the corrective actions necessary to eliminate ground surface run-off from agricultural farmland adjacent to residential property.	1	
2	Identify the implications of farmland topography, tilling techniques, soil conditions/saturation, and crop products applied to the adjacent farmland and its impact on residential stormwater management functionality and performance.		
3	Review the latest approved land development plan and identify all stormwater system features (drains, swales, berms, culverts, stormwater ponds and basins, sizing configuration, assessed flow rates and capacities) have been incorporated and functioning correctly.		

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
4	Identify steps necessary to expropriate the required farmland to obtain a buffer or setback for the addition of a stormwater pond or basin, berms, swales, culverts, etc. to adequately direct farmland surface run-off away from residential properties.		
5	Inspect existing residential properties for issues which may impact stormwater system flow rates in the current swale.		
6	Measure the current farmland topography in relation to residential property elevations and mitigate the debris migration or soil erosion potentially filling the existing swale.		

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
7	Municipality to set residential landscaping guidelines/by-laws adjacent to stormwater swales and culverts and provide residents with alternatives to existing property layout. ie. landscaping rock versus vegetation and scrub lining swale surfaces, garden ornaments, use of mulch or other potential garden debris.		
8	Municipality to agree upon identifying stormwater management system responsibilities as it relates to; ownership, accessibility, cleanup and vegetation control with existing residents and potential resale owners		

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
9	Municipality to recommunicate with adjacent agricultural land-owners their responsibility to meet compliance requirements of the Ontario Drainage Act. (Drainage Act, R.S.O. 1990, c. D.17). Emphasis placed on farmland stormwater surface run-off into municipal stormwater management systems due to soil saturation and condition of field drainage systems		
10	All future land development plans approved by the municipality to consider hydrology recurrence intervals due to recent environmental changes which suggest the “100 year flood” statistic is no longer applicable.		

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
11	Municipality to meet compliance with the Environmental Assessment Act as it applies to monitor and control of stormwater system management for residential property.		
12	Municipality to meet compliance with the Environmental Assessment Act as it applies to monitor and control of stormwater system management for residential property.		
13	Municipality to implement an integrated approach to a stormwater emergency planning and management activity. 5 key pillars for emergency planning are: i) prevention, ii) mitigation, iii) preparedness, iv) response, and v) recovery.		

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
14	Municipality to develop a flood prevention and management plan. The Ontario government has a program which provides up to 50% matched federal funding to provinces and territories for eligible flood mapping projects. Identifying flood hazard areas helps reduce risks to people and property. Increasing the accuracy of publicly accessible flood maps in the province will inform land use planning decisions by: directing development away from flood-prone areas providing certainty for developers and property owners. More accurate maps will better prepare the people of Ontario for future flooding and reduce long term disaster assistance costs for the province. (https://www.ontario.ca/page/flood-hazard-identification-and-mapping-program). Accurate flood plain mapping of the study area identified in the Stormwater Management Master Plan (SWMMP) would be beneficial to depict how agricultural fields, residential homes, roads, drainage systems, and utilities would be impacted by abundant rain, rapid melting snow, and overall flood conditions.		

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
15	Municipality to amalgamate all provincial and federal government organizations' requirements into a compliance matrix to demonstrate compliance to all stormwater water management unique requirements. ie. Ontario Ministry of i) Environment, ii) Natural Resources, iii) Public Infrastructure, iv) Municipal Affairs and Housing, vi) Community Safety and Correctional Services, vii) Agriculture and Rural Affairs, Environment Canada, Ontario Drainage Act, Ontario Environmental Assessment Act, Ontario Flood Hazard Identification and Mapping Program, etc. Beneficial to remove barriers and inconsistency in code related to storm water management.		

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
16	Storm water management interests to be better aligned with other larger environmental interests to optimize a synergistic and more cost-effective outcome.		
17	The Municipality should be actively involved in developing focused and consistent messaging through public (including industrial and commercial) outreach and education regarding improving storm water management needs.		
18	The Municipality resources should be increased to provide adequate oversight (inspection, report review, audits, witness, and enforcement) for the storm water management plan.		

Recommendations to Optimize Stormwater Management Plan

Guiding principle is to execute completion of an agreed stormwater management plan which eliminates deficiencies impacting flood protection.

Issue Number	Issues to be Addressed to Achieve the Guiding Principle	Priority	Timeline
19	Access to local and provincial funding opportunities needs to be broadened and non-competitive grant funding opportunities need to be identified to overcome SWMMP budget constraints		
20	Methodologies, tools, and measures for storm water program effectiveness should be improved to support adaptive management and provide data that can be acted upon to improve storm water program effectiveness		
21	Post construction inspection of stormwater management and sewer systems in new subdivisions to be inspected for correct installation and debris to ensure proper functionality prior to home occupancy.		

Background Information

Stormwater Flooding and Run-off

Surface Water Flooding from Ag to Residential Property

- In prolonged, exceptionally heavy rain downpours or rapid snow melt conditions, which are becoming more frequent, the agricultural field may saturate, increasing surface water run-off to the swales and drains backing onto the residential personal property
- These swales and drains which are intended to carry away the excessive surface water may overflow or may even be blocked with field or landscape debris, leading to unacceptable flooding. In situations whereby agricultural fields have a higher elevation than that of adjacent residential property, surface water run-off will flow downhill and collect which results in residential property be at particular risk of surface water flooding

Field Water Run-off and Farmland Management

- ‘Run-off’ means rainfall that does not soak into the ground or flows beyond a drain or watercourse. Run-off can flow off fields and end up onto residential property. This is most likely to happen after crops have been harvested or prior to sprouting of new crops
- With the combination of field elevation, soil compaction, rapidly melting surface snow, the soil is less capable of absorbing surface water easily. This risk is greater when swales around fields have inadequate capacity and can no longer carry the water away effectively

Field Water Run-off and Farmland Management

- Farmers should apply due diligence and manage their agricultural land in a way that reduces run-off to avoid residential flooding
- In the event, no till/zero tillage farming techniques for nutrient recycling have been used, a further risk of run-off carrying field material may cause blockage of the drainage system as well as depositing into the Ausable River. ie. cut corn stalks

100 Year Flood vs. Recurrence Intervals

100 Year Flood

A 100-year flood happened last year so it won't happen for another 99 years, right? Not exactly. Misinterpretation of terminology often leads to confusion about flood recurrence intervals.

100 Year Flood

- Possibly you can remember when a significant rain, be it from a thunderstorm or a large frontal system, hit Grand Bend. If flood conditions occurred because of the rain then you might have seen the internet or TV weatherman say something like "This storm has resulted in a 100-year flood on Ausable River, which crested at a stage of 4 feet." Obviously, this means that the river reached a peak stage (height) that happens only once every 100 years, right? A hydrologist would answer "Well, not exactly." Hydrologists don't like to hear a term like "100-year flood" because, scientifically, it is a misinterpretation of terminology that leads to a misconception of what a 100-year flood really is.

100 Year Flood

- Instead of the term "100-year flood" a hydrologist would rather describe this extreme hydrologic event as a flood having a 100-year recurrence interval
- A short explanation is that, according to historical data about rainfall and stream stage, the probability of Ausable River reaching a stage of 4 feet is once in 100 years. In other words, a flood of that magnitude has a 1 percent chance of happening in any year

How can we have two "100-year floods" in less than two years?

This question points out the importance of proper terminology. The term "100-year flood" is used to try to simplify the definition of a flood that statistically has a 1-percent chance of occurring in any given year. Likewise, the term "100-year storm" is used to define a rainfall event that statistically has this same 1-percent chance of occurring. In other words, over the course of 1 million years, these events would be expected to occur 10,000 times. But just because it rained 10 inches in one day last year doesn't mean it can't rain 10 inches in one day again this year.

What is a recurrence interval?

"100-year floods can happen 2 years in a row"

Statistical techniques, through a process called frequency analysis, are used to estimate the probability of the occurrence of a given precipitation event. The recurrence interval is based on the probability that the given event will be equaled or exceeded in any given year

- For example, assume there is a 1 in 50 chance that 6.60 inches of rain will fall in a certain area in a 24-hour period during any given year. Thus, a rainfall total of 6.60 inches in a consecutive 24-hour period is said to have a 50-year recurrence interval
- Likewise, using a frequency analysis there is a 1 in 100 chance that a streamflow of 12.5 cubic feet per second (ft3/s) will occur during any year at a specific streamflow-measurement site. Thus, a peak flow of 12.5 ft3/s at the site is said to have a 100-year recurrence interval. Rainfall recurrence intervals are based on both the magnitude and the duration of a rainfall event, whereas streamflow recurrence intervals are based solely on the magnitude of the annual peak flow

Recurrence Intervals

- Many years of data are required to perform a frequency analysis for the determination of recurrence intervals. Of course, the more years of historical data the better—a hydrologist will have more confidence on an analysis of surface run-off with 30 years of record than one based on 5 years of record

- Recurrence intervals for the annual peak surface run-off or streamflow at a given location change if there are significant changes in the flow patterns at that location, possibly caused by a restriction or diversion of flow. ie. The direction of how a field is plowed, field elevation to residential property, soil type, saturation of field soil, etc. The effects of land development (conversion of land from forested or agricultural uses to residential uses) on peak flows is generally much greater for low-recurrence interval floods than for high-recurrence interval floods, such as 25- 50- or 100-year floods. During these larger floods, the soil is saturated and does not have the capacity to absorb additional rainfall. Under these conditions, essentially all the rain that falls, whether on hard surfaces or on saturated soil, runs off and becomes streamflow.

Recurrence Intervals and Probabilities of Occurrences

Recurrence interval, years	Annual exceedance probability, percent
2 (3)	50 (33)
5	20
10	10
25	4
50	2
100	1
Recurrence interval, years	Annual exceedance probability, percent
200	0.5
500	0.2

Five Pillars of Emergency Planning and Management

- an integrated approach allows internal efficiencies, cost savings, and is extremely defensible based on new science and technology

- some limitations may prevent this complete model approach due to a lack of local resources and/or capacity. Three pillars highlighted are a minimum to supporting the plan

PILLARS OF EMERGENCY PLANNING				
PREVENTION	**MITIGATION**	**PREPAREDNESS**	**RESPONSE**	**RECOVERY**
Prevent effects of floods	Reduce flooding	Develop capacity to respond	Take action during a flood	Deal with flood aftermath
EMERGENCY MANAGEMENT ACTIVITY				
Planning and regulation to minimize vulnerabilities (e.g. regulate floodplain land use, education)	**Evaluate risks and implement mitigation programs** (e.g. flood control structures, flood proofing, flood forecasting & warning systems)	**Develop plans for emergency preparedness** (e.g. flood contingency planning, partner training, public education)	**Implement emergency measures** (e.g. monitor storms and stream flows, issue flood warnings)	**Help administer relief / recovery programs** (e.g. assess overall damage, post audit of flood response)

Stormwater Flood Prevention and Management

Foundation of Flood Prevention and Management

Floodplain mapping - actual hydrologic and hydraulic knowledge and experience can be used to model and derive flood flows and delineate flood prone areas.

- The ability to predict when, where, and how flooding will impact a proposed or existing residential development is invaluable to prevent flood damage and establishing an emergency flood response.
- The mapping and modeling is important to delineate the flood regulated areas but also can be used identifying flood mitigation measures, control options, developing effective emergency preparedness plans and emergency response systems.
- The benefit of accurate floodplain maps:



    a. depict how agricultural fields, residential homes, roads, drainage systems, and utilities would be impacted by different rain, rapid melting snow, and overall flood conditions

Flood Hazard Identification and Mapping Program

Ontario

Flood Hazard Identification and Mapping Program

How municipalities, conservation authorities and Indigenous communities can get funding for flood mapping projects.

1. Overview
2. Eligibility
3. How to apply
4. Evaluation criteria
5. Contact

Overview

In January 2022, Natural Resources Canada (NRCan) launched the Flood Hazard Identification and Mapping Program (FHIMP).

This program provides up to 50% matched federal funding to provinces and territories for eligible flood mapping projects.

Identifying flood hazard areas helps reduce risks to people and property. Increasing the accuracy of publicly accessible flood maps in the province will inform land use planning decisions by:

- directing development away from flood-prone areas
- providing certainty for developers and property owners

More accurate maps will better prepare the people of Ontario for future flooding and reduce long term disaster assistance costs for the province.

Eligibility

The following are eligible to apply to FHIMP:

s include:

hydrological and hydraulic modeling of high-priority
elopment of new flood hazard maps
and mapping
nazard information to improve access to flood hazard

rity setting and scoping
applicable to the development of new flood hazard

ecipients until March 2024, and reduce the costs
dating maps.

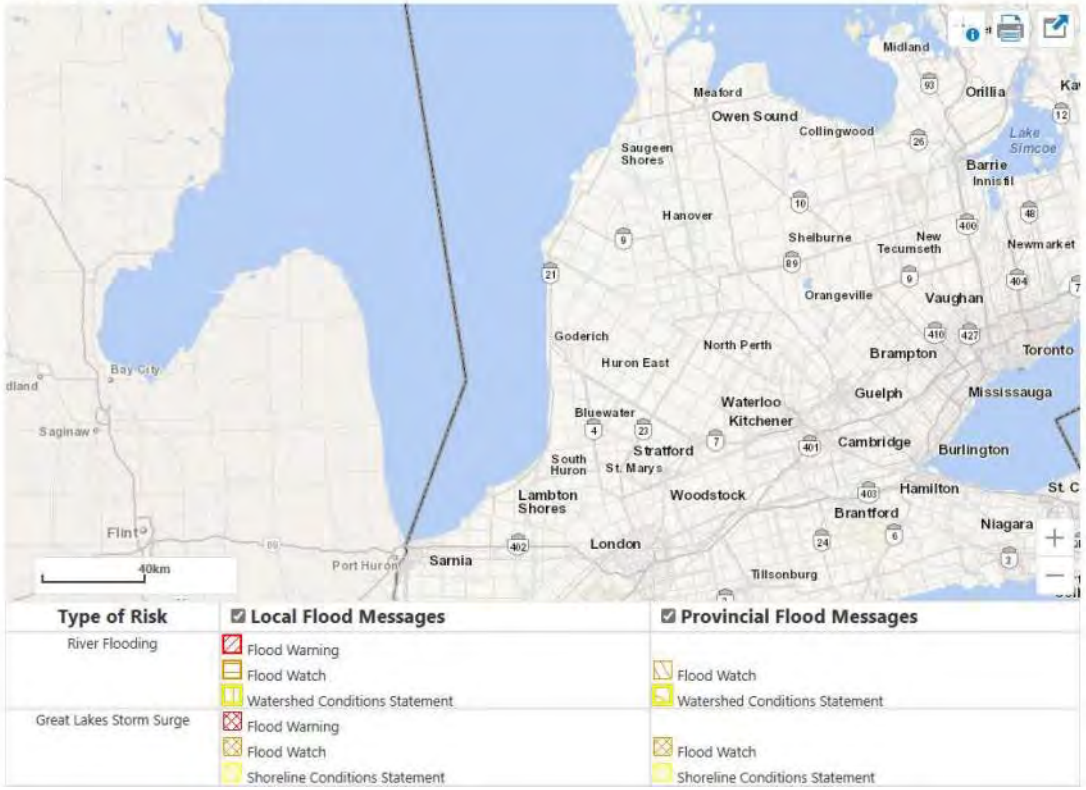
om August 12 to September 16, 2022. The application
s regarding the application process can be directed
.ca.

additional information to help inform the project

e evaluated based on factors such as:

e of existing mapping
new or updated flood mapping
ncy of new or historical flooding
or planned development

Ontario flood map



https://www.gisapplication.lrc.gov.on.ca/webapps/flood/#currentFloodInformation

Setbacks and Buffers between Non-Agricultural and Agricultural Areas

- Farms face continued pressure from increased urbanization and loss of agricultural land. As the population increases, the pressure for new land to be developed also increases. The new land development can lead to the loss of prime agricultural areas. In addition, the land development plan needs to consider land elevations, flood plains, land grading to avoid stormwater impacts to residential property
- In the case of some Harbourside residents, stormwater run-off from farmers' fields is a significant issue. One method that may combat both the loss of farmland and stormwater run-off complaints is the use of setback requirements from agricultural land. Setbacks are the distance from a property line to where a building or home may be built. Setbacks can be used in zones to separate different land uses and help maintain stormwater protection between zones. For example, an ordinance may require a minimum setback of 30 feet from any right-of-way for the purpose of addressing stormwater run-off in a zone or flood plain that may be at risk

Setbacks and Buffers between Non-Agricultural and Agricultural Areas

- In addition to setback requirements, areas may also require buffers to separate agricultural and non-agricultural uses. Buffers come in many forms, but in general buffers are areas of land with permanent vegetation or locations to install potential infrastructure (swales, berms, other drainage systems) designed to intercept stormwater run-off. It is recommended the municipality establish setbacks and buffers for new development adjacent to agricultural land in accordance with local topography, local ecosystems, soil conditions, farming techniques and land use, and other environmental conditions

Stormwater Water Management Activities

- Currently supported by provincial and federal governments who help to prevent stormwater floods

* Key support to Harbourside issue



Ontario Drainage Act and Conservation Authorities Act
Canadian Environmental Assessment Act
Ontario Environmental Assessments

Environmental Assessment Act

Environmental Assessment Act

The *Environmental Assessment Act* sets out a planning and decision-making process so that potential environmental effects are considered before a project or land development plan begins

The act applies to:

- provincial ministries and agencies
- municipalities such as towns, cities, and counties
- public bodies such as conservation authorities

Environmental Assessment Act

The key principles of successful environmental assessment planning include:

i. Consultation with affected parties early in and throughout the process, such that the planning process is a cooperative venture

ii. Consideration of a reasonable range of alternatives, both the functionally different "alternatives to" and the "alternative methods" of implementing the solution

iii. Identification and consideration of the effects of each alternative on all aspects of the environment

iv. Systematic evaluation of alternatives in terms of their advantages and disadvantages, to determine their net environmental effects

v. Provision of clear and complete documentation of the planning process followed, to allow "traceability" of decision-making with respect to the project

Environmental Assessment Act Monitoring

Compliance and Monitoring

- Proponents must comply with the commitments made in the environmental assessment and with the conditions of approval

  There are 2 types of monitoring:

  i. compliance monitoring
  ii. effects monitoring

Environmental Assessment Act Monitoring

Compliance Monitoring

Compliance monitoring looks at whether a project has been implemented:

- according to commitments made in the environmental assessment
- according to the environmental assessment monitoring framework for all phases of construction and decommission
- conditions of approval

Proponents must provide annual compliance monitoring reports to the ministry.

Effects Monitoring

Effects monitoring is used after environmental assessment project approval to:

- verify the expected environmental effects
- determine if additional impact management measures are required

Key Takeaways

- A residential development plan adjacent to existing farmland requires setback or buffer guidelines and a policy to address stormwater management considering local topography, local ecosystems, soil conditions, farming techniques and products, and other environmental conditions
- Municipality to work with current residents to set specific landscaping guidelines with the intention to not impact the stormwater management system. ie. Landscaping rock vs. vegetation/scrub filled swale. New and existing residents to respect the mutually agreed guidelines to not interfere with the stormwater management system – compliance monitoring
- Municipality to take responsibility of ensuring the approved stormwater management system functions as designed including regular maintenance inspections for i) potential damage or alterations, ii) clearing of debris from culverts, protective grates, and overflow drains, iii) removal of excessive sediment from stormwater basins and ponds – effects monitoring

Key Takeaways

- Municipality needs to outline to residents' the limitations or changes to their properties that may impact the stormwater management system efficiency – effects monitoring
- Potential new homeowners or existing resident's must understand the ownership and responsibility of the stormwater management system as it may reside on their property as well as the implications if not respected – compliance monitoring
- New land development plans to use hydrology recurrence intervals since recent environmental changes suggest the 100 year flood statistic is no longer applicable – effects monitoring

Key Takeaways

- Proper maintenance is critical to the successful performance of a stormwater management system. During the first two years of operation, inspections after significant storms will ensure that the system is functioning properly. After this, annual checks may be done to identify maintenance needs. Blockages may need to be cleared from inlets and outlets. Unhealthy vegetation may need to be tended or replaced. The design of stormwater management practices for water quality improvement is based primarily on settling of sediment. Therefore, at some point, accumulated material will need to be removed.

Key Takeaways

- Farmers should apply due diligence and manage their agricultural land in a way that reduces run-off to avoid residential flooding
- The Environmental Assessment Act is in place to minimize, monitor, and control the impact of stormwater run-off into residential property

Roy Johnson

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Friday, July 21, 2023 8:16 AM
To: Roy Johnson
Cc: Nick Verhoeven
Subject: FW: Water in Harbourside Grand Bend

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FYI

THE MUNICIPALITY OF
LAMBTON SHORES

Sam Shannon
Infrastructure Manager

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From: Cathy Henderson [redacted]
Sent: Thursday, July 20, 2023 6:43 PM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: Water in Harbourside Grand Bend

I have been dealing with a serious water problem from the adjacent farmland since I purchased my new home in 2012. It was my understanding at the time of purchase that the ditch, if well maintained, would be adequate for any melting snow or heavy rains. Unfortunately this is not the case and in fact the amount of water pooling in the field is getting worse.
I feel that a large enough berm at the edge of the field would prevent some of the water from pouring unto my property, but I am not sure if that would just push the problem down to the next neighbour. I am sure you have seen photos, but I will share a few more. Thank you for your attention and concern on this issue.

Cathy Henderson
[redacted]







Sent from my iPad

Roy Johnson

From: Harry Grund [redacted]
Sent: Thursday, August 10, 2023 8:21 AM
To: Sam Shannon; Roy Johnson
Cc: Dianne Taylor
Subject: Grand Bend SWM Masterplan - Comments re July 20 PIC #1

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Hello Sam and Roy,

We attended the PIC on July 20. Please review and consider the comments below, to be addressed in the Masterplan:

- Figures 1.1 and 3 use outdated aerial photos, especially for the Harbourside Village residential and Sunrise Lane condo developments. More up-to-date aerial photography ('2020 Aerial'), showing full build-out of these two developments, is available on the Lambton County GIS Online website and should be used to accurately show the houses in these areas.
- Figure 3 doesn't include Harbourside Village (HV) as a "known area identified by the Municipality as experiencing flooding during rainfall events." **This is a major omission, as the residents of HV can confirm and Lambton Shores staff are well aware of. Further, the farm lands immediately south of HV flood regularly, and the runoff directly causes flooding in HV. These problems must be included in the study and solutions must be identified in the Masterplan.**
- Stormwater Management Objectives display board - Quantity Control and Erosion Control: how will achieving these objectives ensure that potential future flooding events in HV are eliminated?
- Lambton Shores staff and certain members of Council are aware of long-term (since at least August 2019) violations of the approved rear yard drainage plan by property owners along the south and east sides of Erin Place. How will this be addressed in the Masterplan?
- Who is responsible for maintaining the right-of-way which contains the Sunrise Lane condo access road and culvert? What are the protocols for routine and emergency maintenance (as was required several times, most recently to remove blockage during a heavy rain on June 26) and will this be identified in the Masterplan?

While there may be other areas of concern regarding drainage and flooding in Grand Bend, we would argue that resolving the causes of the numerous flooding events suffered in Harbourside Village since at least 2011 is the most important issue to include in the Masterplan. **Residents of this neighbourhood have endured years of anxiety, property damage and frustration with the ongoing runoff from the farm lands, and now is the time for solutions.**
If helpful, we can provide copies of our past emails with Lambton Shores and OMAFRA representatives regarding flooding from the farm lands.

Please add our names to the interested party email list as the study proceeds.

Sincerely,
Dianne Taylor and Harry Grund
[redacted]

Roy Johnson

From: Gary Scholl [redacted]
Sent: Wednesday, August 9, 2023 4:20 PM
To: Sam Shannon; Roy Johnson
Subject: Response to SWM Masterplan

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Good day to you ...

I was not able to attend the information session on July 20th but wish to respond to your request for comments and suggestions.

I am certainly not aware of the issues facing the rest of the municipality but I was incredibly surprised that the issues in our Harbourside subdivision were not mentioned anywhere in this plan. Progress has been made over the years but major issues remain. Residents backing on to Erin Road are still dealing with water coming off the farmer's fields to the south and into their basements. I think a little history of our problems here might be useful.

Below is a link to a number of photos and videos that I have taken over the 13 years since we started to build our new home here at 9 Hayter Drive in the fall of 2010. Our home backs on to the Gill Road (Harbourside) Subdivision Pond. These images probably tell the story better than any words that I might provide.

https://photos.app.goo.gl/uJZvpUZNtWY3ucdp9

The images mostly show the changes in the pond including the total rebuild of the pond. The 2 videos at the beginning show the effects of a June 2011 flood from the fields to the south of us ... both on the pond and on Hayter Drive itself. Much later, a ditch along the south and east sides of our subdivision redirected much of that water to the Desjardine Municipal Drain. For a number of reasons, the ditch and rebuilt culvert installed to give access to a condominium development are still not able to carry the water away quickly enough during a heavy rain.

The last 2 images show the corn stalks that were too much for the culvert to carry away on July 2nd of this year. Neighbours had to step in to help out. Watching water fill up your window wells is not something anyone should have to endure. Many of the property owners are currently afraid to leave their homes whenever there is a significant rain forecast. Having to take remedial action in the middle of a rainstorm should not be necessary.

I think the reference in your objectives to "Control post-development to pre-development levels for all storms up to 100-year return period before discharge to rivers" is setting the bar too low. The climate change that we are experiencing is only going to get more severe.

I am sure that others in the neighbourhood will give you many more first hand observations of the water issues here in Harbourside.

Thank you for your attention to this ongoing problem ... Gary Scholl
[redacted]

The Municipality of Lambton Shores

Comment Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Thank you for attending the public meeting. Please provide your comments on any of the material presented.

A serious drainage problem exists in the farm field located directly behind my house at 32 Erin Place in Gill Road subdivision. In this low area of the field adjacent to my property line, a significantly large pond appears after each relatively heavy rainfall. The pond can measure 150' by 75' and have a depth of up to two feet. It may take up to 2 weeks for the

(Please turn over if additional space is required.)

Please complete your comment sheet this evening and place in the comment box provided OR send your completed comment sheet by **August 17, 2023** to:

Sam Shannon
Infrastructure Manager
E: sshannon@lambtonshores.ca

Roy Johnson, P.Eng., Senior Project Manager, Water Resources Engineering
Arcadis IBI Group
E: roy.johnson@ibigroup.com

Personal information contained on this form is collected under the authority of Section 29(2) of the *Municipal Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, c.M.56 as amended. Any comments received will be collected under the Act and, with exception of personal information, will become part of the public record.

PATRICK EVELAND

[redacted]

Address
GRAND BEND

NOM 1TO
Postal Code

[redacted]

Please check a box if you would like to be added to our mailing list to be informed of the publication of the EA.

☑ mailing address ☑ email

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

pond to drain into the ditch along my property line, always causing further erosion.
This pond is fed by surface rainwater, underground water from broken field drainage tile, and surface water running directly from an adjacent farm field to the east.

Upon numerous occasions during a heavy rainfall or snow melt, the ~~~~ water draining into the ditch has flooded my back yard. On 2 occasions, it has flooded my basement, February 2018 and February 2022. I have spent several thousand dollars to protect my property from such flooding. However it is clear that such flooding is likely to occur until proper drainage of this pond is created.

Patrick Eveland

Roy Johnson

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Thursday, August 10, 2023 8:02 AM
To: Roy Johnson
Subject: FW: Stormwater Management

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THE MUNICIPALITY OF
LAMBTON SHORES

Sam Shannon
Infrastructure Manager

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From: Rob Fidler [redacted]
Sent: Wednesday, August 9, 2023 4:43 PM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: Stormwater Management

Hi Sam,
The following are some concerns in regards to the stormwater management. Since we reside at 20 Erin Place, they will be
limited to the area know as the Gill Farm which is to the south of Erin Place.

First, the amount of run-off from the farm located in South Huron , just east of the Gill Farm. It would seem that storm
runoff from that farm comes thru the northerneastern area of the Gill Farm. This have been evident during heavy rains but was
most evident during the last major storm around the end of July. Since the farmer is practicing no-till farming, there was a large
amount of last year's corn stalk debris that ended up on the north edge of the Gill Farm , inhibiting water flow. As a matter of fact, we actually had some of this debris in the field directly behind our residence. It also clogged the culvert at the entrance to Harbourside Condos.

The other area of concern is the surface runoff of the Gill Farm. It all runs to the north end of the field which should be alleviated by the ditch at the south side of Erin Place. However, it would seem that the field has old tiling for drainage which is
broken/clogged as there are multiple areas where the water bubbles up thru the ground from the hydrostatic pressure within

the tiling system. This was still evident a few days after the rain event, thereby becoming surface water instead of being routed to
proper drainage. As a matter of fact, as I write this, there is still an area of surface water ponding behind 22 Erin.

Please include me on the mailing list of the EA via email.

Thanks

Rob Fidler [redacted] [redacted]

Roy Johnson

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Friday, July 21, 2023 8:26 AM
To: Roy Johnson
Cc: Nick Verhoeven
Subject: FW: SWM Master Plan - Village of Grand Bend - Questions Comments - July 20 2023

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From: Jason Dykstra [redacted]
Sent: Thursday, July 20, 2023 10:44 PM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: SWM Master Plan - Village of Grand Bend - Questions Comments - July 20 2023

Sam,

Nice meeting you this afternoon at the SWM - Village of Grand Bend, Public Information Centre

My questions do stem outside of the realm of this project so I would appreciate if we identified the issues, problems as part of the SWM Master Plan and then address the other issues separately. The issues that overlap each other we can possibly address and present in the SWM Master Plan as we seem fit.

My issues mainly regard the Van Dongen Subdivision.

1. The Van Dongen subdivision has a significantly high water table. Many houses on Elizabeth and Leonard have had basement flooding issues due to the high water table
2. As far as I am aware the Van Dongen Subdivision does not have an approved Storm Water Management Plan or design. Over the years it has been thought that the 4 acre pond that centres the subdivision is a SWM pond, however I have not seen any evidence of such
3. In heavy rain events there is flooding on property and across the road on Elizabeth St. Mainly taking in properties - 9884 Elizabeth, 9877 Elizabeth, and 9883 Elizabeth. I believe such flooding could have to do with a blocked drain that I have been told runs underground in such area.

4. The Mailout for the STW Management event identified a "ditch" that runs down the West side of Elizabeth. I do not believe this ditch exists.
5. To the East of Vandongen it is shown on the mailout that there is a "unknown drain". I would like to know if such drain provides an outlet for stormwater from the Vandongen Subdivision
6. There is a catch basin that is located on the corner of 9888 leonard St. What is connected to this catch basin and where does it go?
7. What is the SWM Master Plan for "south bend" Subdivision. I do not see it identified at all as part of this exercise, however as far as I know it is subdivision agreement that has been approved could start
8. As part of the SWM Master Plan in the actual village of Grand Bend will Lambton Shores be reviewing cross connection between storm and sanitary?

The Issues that I feel do not specifically correlate with the SWM master plan, but overlap are the following

1. Vandongen Subdivision has a 4 acre pond. Roll Number - 384546009010270 - It is separately owned and last time I checked it was owned by a non profit organization called " The Van Dongen Rate Payers Association". The Van Dongen Rate Payers Association folded in 2010. How they folded with out selling their property asset is a bit of a mystery. My question is, if Van Dongen Rate Payers Association is not an organization any more, who owns the 4 acre pond?, also since this property has a Pin, legal description and Roll, I assume it has been charged Property Taxes as well. Have the taxes been paid, and if not will this property go up for tax sale?. I have huge concerns if such property would go up for tax sale, and possibly it can't go up for tax sale if the pond has some SWM function for the entire subdivision.
2. There is a drain on the North east property of the Pond. From what I have been told it connects to the Catch basin at 9888 Leonard St. My question is why would there be a drain on this pond if it did not have a SWM function. Such drain on the pond appears to be plugged. What would it take to have such drain cleaned out?, I believe if cleaned the pond would be cleaner, and not be a breeding ground for mosquitoes, plus it would aid in SWM for the subdivision.
3. As per the SWM drawings it stated that the pond extends further to the south then it actually does. My concern with such is I have an ownership in 10082 Jane St. As per the drawing it states that most of the property is under water.

On a completely unrelated topic.
I have a few other questions.

1. In order to fully develop 10082 Jane St. Could I acquire the pond property and merge it on title with 10082 Jane St. Then go through a Part Lot Control Planning application to develop the property.
2. To develop the property ideally I would need a sewer. Is there anyway to get sewers to 10082 Jane St.
3. 9822 Parkview Cr. I was heavily involved with an issue on this property a few years back. There are many property standards issues on this property right now. Are they being addressed?. Also if you look at the GIS on this property this section of road on Parkview does not line up with the actual Road. From the GIS it appears that 9882 Parkview actually own the section of Road. Can I be enlightened on what happened and what actually is going on with this.
4. I was also told that there is a pressurized sewer that runs through the field at the rear of Vandongen subdivision. Is this sewer sized to take any additional flow?

Johnson, Roy

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Tuesday, August 15, 2023 2:16 PM
To: Roy Johnson
Subject: FW: Water Issues for residents on Alberta Street

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Sam Shannon
Infrastructure Manager

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https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.lambtonshores.ca%2F&data=05%7C01%7Croy.johnson%40arcadis.com%7C411cf26cd4d9445e238108db9dbbb2f3%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C638277201722799335%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Lb7j7U%2Bjda4%2BmqUpyMOuuaok4YBqILiQBcc32Sm3Jpo%3D&reserved=0

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-----Original Message-----
From: noreply@lambtonshores.ca <noreply@lambtonshores.ca> On Behalf Of Mary Chevreau
Sent: Tuesday, August 15, 2023 12:59 PM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: Water Issues for residents on Alberta Street

Hi Sam,
As homeowners at 44 Alberta Street, Grant Bend, we are writing to alert you to the ongoing water issues many of us are experiencing on our properties. While water often accumulated in our yards during the traditional Spring thaw, we are now experiencing significant ongoing flooding throughout the summer, leaving many of our properties under water and unusable. May property owners suspect the change in water level has a direct correlation to new builds along Lake Street, where water is now being diverted onto our properties. Without a stormwater system, the water simply has nowhere to go.
While some homes are able to drain into the adjacent pond (apparently grandfathered to do so years ago), most homeowners have no such permission.

We are writing to ask for a thorough investigation into the flooding and for a swift response.

Thank you for your consideration and review - we look forward to your response.

Origin: https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.lambtonshores.ca%2Fen%2Four-government%2Fgrand-bend-stormwater-management-

masterplan.aspx&data=05%7C01%7Croy.johnson%40arcadis.com%7C411cf26cd4d9445e238108db9dbbb2f3%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C638277201722799335%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=7A2dS30ojHNgTzUaLwfjp6hGf5CoB92JnOhnrCneujs%3D&reserved=0

This email was sent to you by Mary Chevreau<chevreau.mary@gmail.com> through https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.lambtonshores.ca%2F&data=05%7C01%7Croy.johnson%40arcadis.com%7C411cf26cd4d9445e238108db9dbbb2f3%7C7f90057d3ea046feb07ce0568627081b%7C0%7C0%7C638277201722799335%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=2n3Jjs78uPmI1h8VQ1vrxZkTuieIXRjkPWEOkwzEjQY%3D&reserved=0.

I am having some serious flooding issues on my property, 50 Shoreline Rd N. I'm on the corner of Shoreline and Lake Rd.

Shoreline Road seems to be angled towards a dry storm sewer in front of my house. When it rains, all the rain from the road flows over the storm drain (as it filled within seconds, even after the work team came and cleaned it out) which it has for years when my Mother owned our house. Mom called the township many times but she didn't pursue it.

I'm have 2 videos, one of a 'lighter' rain coming down my path, and a 2nd which shows the road part.

I'm wondering if a temp curb installed along the front of my property from neighbours driveway to the corner, and adding a grass boulevard on Lake Rd which my neighbour to that side had put in by the township I think. I think both would prevent the pathway problem, and the driveway.

The driveway problem is, again the road in front, and the rain on Lake Rd is pouring into my driveway causing pooling, and some flooding on the property. The recent heaviest rain from the road, along with my eavestrough, flooded the basement. I think if the rest of the boulevard was built up a bit with grass, this could prevent this.

In so saying all this, I, and neighbours, don't want the character or size, of Shoreline Rd N changed, just fixed
Thanks, Louise

The Municipality of Lambton Shores

Comment Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Thank you for attending the public meeting. Please provide your comments on any of the material presented.

(Please turn over if additional space is required.)

Please complete your comment sheet this evening and place in the comment box provided OR send your completed comment sheet by **August 17, 2022** to:

Sam Shannon
Infrastructure Manager
E: sshannon@lambtonshores.ca

Roy Johnson, P.Eng., Senior Project Manager, Water Resources Engineering
Arcadis IBI Group
E: roy.johnson@ibigroup.com

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[redacted]

Address

City / Town Grand Bend Postal Code N0M 1T0

Email [redacted]

Please check a box if you would like to be added to our mailing list to be informed of the publication of the EA.

☐ mailing address ☑ email

Roy Johnson

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Friday, July 21, 2023 8:16 AM
To: Roy Johnson
Cc: Nick Verhoeven
Subject: FW: Water in Harbourside Grand Bend

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THE MUNICIPALITY OF LAMBTON SHORES

Sam Shannon
Infrastructure Manager

9577 Port Franks Road
Thedford, ON N0M 2N0
(P) 519-243-1400 Ext.8215
or 1-866-943-1400
www.lambtonshores.ca

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From: Cathy Henderson [redacted]>
Sent: Thursday, July 20, 2023 6:43 PM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: Water in Harbourside Grand Bend

I have been dealing with a serious water problem from the adjacent farmland since I purchased my new home in 2012. It was my understanding at the time of purchase that the ditch, if well maintained, would be adequate for any melting snow or heavy rains. Unfortunately this is not the case and in fact the amount of water pooling in the field is getting worse.
I feel that a large enough berm at the edge of the field would prevent some of the water from pouring unto my property, but I am not sure if that would just push the problem down to the next neighbour. I am sure you have seen photos, but I will share a few more. Thank you for your attention and concern on this issue.

Cathy Henderson
[redacted]







Sent from my iPad

Roy Johnson

From: Harry Grund [redacted] >
Sent: Thursday, August 10, 2023 8:21 AM
To: Sam Shannon; Roy Johnson
Cc: Dianne Taylor
Subject: Grand Bend SWM Masterplan - Comments re July 20 PIC #1

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Hello Sam and Roy,

We attended the PIC on July 20. Please review and consider the comments below, to be addressed in the Masterplan:

- Figures 1.1 and 3 use outdated aerial photos, especially for the Harbourside Village residential and Sunrise Lane condo developments. More up-to-date aerial photography ('2020 Aerial'), showing full build-out of these two developments, is available on the Lambton County GIS Online website and should be used to accurately show the houses in these areas.
- Figure 3 doesn't include Harbourside Village (HV) as a "known area identified by the Municipality as experiencing flooding during rainfall events." **This is a major omission, as the residents of HV can confirm and Lambton Shores staff are well aware of. Further, the farm lands immediately south of HV flood regularly, and the runoff directly causes flooding in HV. These problems must be included in the study and solutions must be identified in the Masterplan.**
- Stormwater Management Objectives display board - Quantity Control and Erosion Control: how will achieving these objectives ensure that potential future flooding events in HV are eliminated?
- Lambton Shores staff and certain members of Council are aware of long-term (since at least August 2019) violations of the approved rear yard drainage plan by property owners along the south and east sides of Erin Place. How will this be addressed in the Masterplan?
- Who is responsible for maintaining the right-of-way which contains the Sunrise Lane condo access road and culvert? What are the protocols for routine and emergency maintenance (as was required several times, most recently to remove blockage during a heavy rain on June 26) and will this be identified in the Masterplan?

While there may be other areas of concern regarding drainage and flooding in Grand Bend, we would argue that resolving the causes of the numerous flooding events suffered in Harbourside Village since at least 2011 is the most important issue to include in the Masterplan. **Residents of this neighbourhood have endured years of anxiety, property damage and frustration with the ongoing runoff from the farm lands, and now is the time for solutions.**
If helpful, we can provide copies of our past emails with Lambton Shores and OMAFRA representatives regarding flooding from the farm lands.

Please add our names to the interested party email list as the study proceeds.

Sincerely,
Dianne Taylor and Harry Grund
[redacted]
[redacted]m

Roy Johnson

From: Gary Scholl [redacted]
Sent: Wednesday, August 9, 2023 4:20 PM
To: Sam Shannon; Roy Johnson
Subject: Response to SWM Masterplan

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Good day to you ...

I was not able to attend the information session on July 20th but wish to respond to your request for comments and suggestions.

I am certainly not aware of the issues facing the rest of the municipality but I was incredibly surprised that the issues in our Harbourside subdivision were not mentioned anywhere in this plan. Progress has been made over the years but major issues remain. Residents backing on to Erin Road are still dealing with water coming off the farmer's fields to the south and into their basements. I think a little history of our problems here might be useful.

Below is a link to a number of photos and videos that I have taken over the 13 years since we started to build our new home here at 9 Hayter Drive in the fall of 2010. Our home backs on to the Gill Road (Harbourside) Subdivision Pond. These images probably tell the story better than any words that I might provide.

https://photos.app.goo.gl/uJZvpUZNtWY3ucdp9

The images mostly show the changes in the pond including the total rebuild of the pond. The 2 videos at the beginning show the effects of a June 2011 flood from the fields to the south of us ... both on the pond and on Hayter Drive itself. Much later, a ditch along the south and east sides of our subdivision redirected much of that water to the Desjardine Municipal Drain. For a number of reasons, the ditch and rebuilt culvert installed to give access to a condominium development are still not able to carry the water away quickly enough during a heavy rain.

The last 2 images show the corn stalks that were too much for the culvert to carry away on July 2nd of this year. Neighbours had to step in to help out. Watching water fill up your window wells is not something anyone should have to endure. Many of the property owners are currently afraid to leave their homes whenever there is a significant rain forecast. Having to take remedial action in the middle of a rainstorm should not be necessary.

I think the reference in your objectives to "Control post-development to pre-development levels for all storms up to 100-year return period before discharge to rivers" is setting the bar too low. The climate change that we are experiencing is only going to get more severe.

I am sure that others in the neighbourhood will give you many more first hand observations of the water issues here in Harbourside.

Thank you for your attention to this ongoing problem ... Gary Scholl
[redacted]

The Municipality of Lambton Shores

Comment Sheet

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Thank you for attending the public meeting. Please provide your comments on any of the material presented.

A serious drainage problem exists in the farm field located directly behind my house at 32 Erin Place in Gill Road subdivision. In this low area of the field adjacent to my property line, a significantly large pond appears after each relatively heavy rainfall. The pond can measure 150' by 75' and have a depth of up to two feet. It may take up to 2 weeks for the

(Please turn over if additional space is required.)

Please complete your comment sheet this evening and place in the comment box provided OR send your completed comment sheet by **August 17, 2023** to:

Sam Shannon
Infrastructure Manager
E: sshannon@lambtonshores.ca

Roy Johnson, P.Eng., Senior Project Manager, Water Resources Engineering
Arcadis IBI Group
E: roy.johnson@ibigroup.com

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PATRICK EVELAND

[redacted]

GRAND BEND — NOM 1P0

City / Town — Postal Code

pgeveland@hotmail.com

Email Address

Please check a box if you would like to be added to our mailing list to be informed of the publication of the EA.

☑ mailing address ☑ email

Public Information Centre (PIC)

Thursday, July 20, 2023

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

pond to drain into the ditch along my property line, always causing further erosion.
This pond is fed by surface rainwater, underground water from broken field drainage tile, and surface water running directly from an adjacent farm field to the east.
Upon numerous occasions during a heavy rainfall or snow melt, the ~~~~ water draining into the ditch has flooded my back yard. On 2 occasions, it has flooded my basement, February 2018 and February 2022. I have spent several thousand dollars to protect my property from such flooding. However it is clear that such flooding is likely to reoccur until proper drainage of this pond is created.

Patrick Eviland

Roy Johnson

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Thursday, August 10, 2023 8:02 AM
To: Roy Johnson
Subject: FW: Stormwater Management

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THE MUNICIPALITY OF
LAMBTON SHORES

Sam Shannon
Infrastructure Manager

9577 Port Franks Road
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From: Rob Fidler [redacted]>
Sent: Wednesday, August 9, 2023 4:43 PM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: Stormwater Management

Hi Sam,
The following are some concerns in regards to the stormwater management. Since we reside at 20 Erin Place, they will be
limited to the area know as the Gill Farm which is to the south of Erin Place.

First, the amount of run-off from the farm located in South Huron , just east of the Gill Farm. It would seem that storm
runoff from that farm comes thru the northerneastern area of the Gill Farm. This have been evident during heavy rains but was
most evident during the last major storm around the end of July. Since the farmer is practicing no-till farming, there was a large
amount of last year's corn stalk debris that ended up on the north edge of the Gill Farm , inhibiting water flow. As a matter of fact, we actually had some of this debris in the field directly behind our residence. It also clogged the culvert at the entrance to Harbourside Condos.

The other area of concern is the surface runoff of the Gill Farm. It all runs to the north end of the field which should be alleviated by the ditch at the south side of Erin Place. However, it would seem that the field has old tiling for drainage which is
broken/clogged as there are multiple areas where the water bubbles up thru the ground from the hydrostatic pressure within

the tiling system. This was still evident a few days after the rain event, thereby becoming surface water instead of being routed to
proper drainage. As a matter of fact, as I write this, there is still an area of surface water ponding behind 22 Erin.

Please include me on the mailing list of the EA via email.

Thanks

Rob Fidler [redacted] fidler_rob@hotmail.com

Roy Johnson

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Friday, July 21, 2023 8:26 AM
To: Roy Johnson
Cc: Nick Verhoeven
Subject: FW: SWM Master Plan - Village of Grand Bend - Questions Comments - July 20 2023

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From: Jason Dykstra [redacted]>
Sent: Thursday, July 20, 2023 10:44 PM
To: Sam Shannon <sshannon@lambtonshores.ca>
Subject: SWM Master Plan - Village of Grand Bend - Questions Comments - July 20 2023

Sam,

Nice meeting you this afternoon at the SWM - Village of Grand Bend, Public Information Centre

My questions do stem outside of the realm of this project so I would appreciate if we identified the issues, problems as part of the SWM Master Plan and then address the other issues separately. The issues that overlap each other we can possibly address and present in the SWM Master Plan as we seem fit.

My issues mainly regard the Van Dongen Subdivision.

1. The Van Dongen subdivision has a significantly high water table. Many houses on Elizabeth and Leonard have had basement flooding issues due to the high water table
2. As far as I am aware the Van Dongen Subdivision does not have an approved Storm Water Management Plan or design. Over the years it has been thought that the 4 acre pond that centres the subdivision is a SWM pond, however I have not seen any evidence of such
3. In heavy rain events there is flooding on property and across the road on Elizabeth St. Mainly taking in properties - 9884 Elizabeth, 9877 Elizabeth, and 9883 Elizabeth. I believe such flooding could have to do with a blocked drain that I have been told runs underground in such area.

4. The Mailout for the STW Management event identified a "ditch" that runs down the West side of Elizabeth. I do not believe this ditch exists.
5. To the East of Vandongen it is shown on the mailout that there is a "unknown drain". I would like to know if such drain provides an outlet for stormwater from the Vandongen Subdivision
6. There is a catch basin that is located on the corner of 9888 leonard St. What is connected to this catch basin and where does it go?
7. What is the SWM Master Plan for "south bend" Subdivision. I do not see it identified at all as part of this exercise, however as far as I know it is subdivision agreement that has been approved could start
8. As part of the SWM Master Plan in the actual village of Grand Bend will Lambton Shores be reviewing cross connection between storm and sanitary?

The Issues that I feel do not specifically correlate with the SWM master plan, but overlap are the following

1. Vandongen Subdivision has a 4 acre pond. Roll Number - 384546009010270 - It is separately owned and last time I checked it was owned by a non profit organization called " The Van Dongen Rate Payers Association". The Van Dongen Rate Payers Association folded in 2010. How they folded with out selling their property asset is a bit of a mystery. My question is, if Van Dongen Rate Payers Association is not an organization any more, who owns the 4 acre pond?, also since this property has a Pin, legal description and Roll, I assume it has been charged Property Taxes as well. Have the taxes been paid, and if not will this property go up for tax sale?. I have huge concerns if such property would go up for tax sale, and possibly it can't go up for tax sale if the pond has some SWM function for the entire subdivision.
2. There is a drain on the North east property of the Pond. From what I have been told it connects to the Catch basin at 9888 Leonard St. My question is why would there be a drain on this pond if it did not have a SWM function. Such drain on the pond appears to be plugged. What would it take to have such drain cleaned out?, I believe if cleaned the pond would be cleaner, and not be a breeding ground for mosquitoes, plus it would aid in SWM for the subdivision.
3. As per the SWM drawings it stated that the pond extends further to the south then it actually does. My concern with such is I have an ownership in 10082 Jane St. As per the drawing it states that most of the property is under water.

On a completely unrelated topic.
I have a few other questions.

1. In order to fully develop 10082 Jane St. Could I acquire the pond property and merge it on title with 10082 Jane St. Then go through a Part Lot Control Planning application to develop the property.
2. To develop the property ideally I would need a sewer. Is there anyway to get sewers to 10082 Jane St.
3. 9822 Parkview Cr. I was heavily involved with an issue on this property a few years back. There are many property standards issues on this property right now. Are they being addressed?. Also if you look at the GIS on this property this section of road on Parkview does not line up with the actual Road. From the GIS it appears that 9882 Parkview actually own the section of Road. Can I be enlightened on what happened and what actually is going on with this.
4. I was also told that there is a pressurized sewer that runs through the field at the rear of Vandongen subdivision. Is this sewer sized to take any additional flow?

RJ0

ARCADIS

STORMWATER MANAGEMENT MASTER PLAN – VILLAGE OF GRAND

PUBLIC INFORMATION CENTRE #2

JULY 2024

ARCADIS

WELCOME TO THE PUBLIC INFORMATION CENTRE

RJ0

Information related to this project is available for public review on Lambton Shores' website.

Please review the Information Centre materials and provide comments on the comment sheet provided. All comments for this Information Centre must be received by May 8, 2024 to be given consideration in the project. Contact Information for the Project Team is available below and on the comment sheet.

This study has been initiated by the Municipality of Lambton Shores. Arcadis (formerly Arcadis-IBI Group) has been retained as the Lead Consultant on the project.

MUNICIPALITY OF LAMBTON SHORES
Sam Shannon
Infrastructure Manager
519-243-1400 Ext. 8215
sshannon@lambtonshores.ca

ARCADIS
Roy Johnson
Senior Project Manager
Roy.johnson@arcadis.com

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ACKNOWLEDGEMENT OF ANCESTRAL LANDS

We acknowledge that this land in the Study Area is part of the ancestral land of the Chippewa, Odawa, and Potawatomi peoples, referred to collectively as the Anishinaabeg. It is through the connection of the Anishinaabeg with the spirit of the land, water and air that we recognize their unique cultures, traditions, and values. Together as treaty people, we have a shared responsibility to act with respect for the environment that sustains all life, protecting the future for those generations to come.

Language Pronunciations:
Anishinaabeg (ah-nish-i-nah-beg)
Chippewa (chip-uh-wah)
Odawa (o-dah-wah)
Potawatomi (pot-uh-wah-tuh-mee)

PREVIOUS PUBLIC INFORMATION CENTRE

Public Information Centre (PIC) #1 (June 2023) presented an introduction for the proposed Stormwater Management Master Plan, specifically:

- Stating the goal of remedying the recurring localized flooding which occurs in various locations throughout Grand Bend (refer to the slides following for areas);
- Developing a long list of alternative solutions for addressing the stormwater concerns; and
- Recommending updates to the Municipality's stormwater engineering guidelines.

The outcome of this project will identify areas of concern; flow and water quality controls; system structural improvements; and operational improvements, as well as establish level of service and performance metrics.

The final Master Plan will be crafted with the Municipality input based on technical analysis and modelling using a municipality-wide model that includes all stormwater drainage features (minor/major) while taking into consideration other Municipality projects/initiatives for a strategic approach to stormwater drainage improvements and implementation.

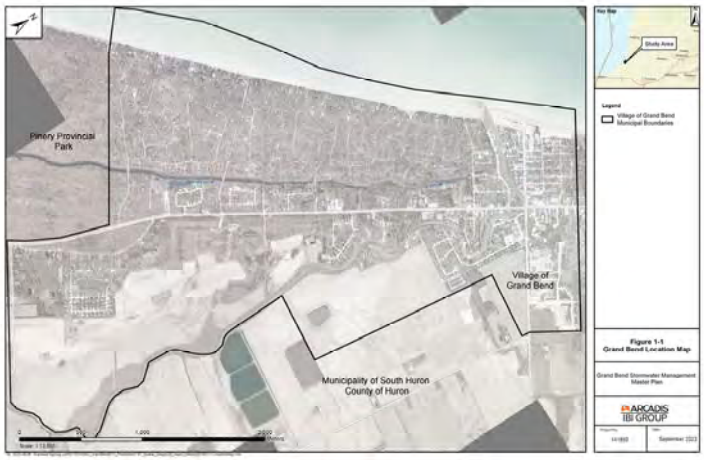


Figure 1.1 shows the Study Area included as part of the SWMMP

RJ0

PURPOSE, PROBLEM AND PROCESS

Purpose

This Public Information Centre is intended to:

- Present the proposed alternatives and preferred solution

Problem/Opportunity Statement

This Stormwater Management Master Plan will identify current deficiencies and guide the implementation of stormwater drainage improvements now and into the future.

Environmental Assessment (EA) Master Plan Process

This project will follow the planning process set out in the Municipal Engineers Association's Municipal Class Environmental Assessment (Class EA) for Master Plans (Approach #2). Master Plans are to follow the same process as a 'Schedule B' and include at least Phase 1 and 2.

- Master Plans are defined as: A long range plan which integrates infrastructure requirements for existing and future land use with environmental assessment principles. At a minimum, a Master Plan addresses Phases 1 and 2 of the Municipal Class EA process.
- Given the Master Plan will minimally cover Phases 1 and 2, all projects identified in the Master Plan that are 'Schedule B' will be considered complete through the EA Process and may proceed to construction. Projects identified as 'Schedule C' will have to complete Phases 3 and 4 before they may proceed to construction.
- A copy of the MCEA document is on-site and is available for review by the public.



GLOSSARY OF TERMS 1/2

- ABCA = The Ausable Bayfield Conservation Authority (ABCA) is an independent, corporate body in Southwestern Ontario on the southeast shores of Lake Huron. It is one of Ontario's 36 conservation authorities with the mandate to ensure the conservation, restoration and responsible management of Ontario's water, land and natural habitats through programs that balance human, environmental and economic needs.
- EA = Environmental Assessment.
- LID = Low Impact Development, a stormwater management strategy that seeks to mitigate the impacts of increased runoff and stormwater pollution by managing runoff as close to its source as possible. LID comprises a set of site design strategies that minimize runoff and distributed, small scale structural practices that mimic natural or predevelopment hydrology through the processes of infiltration, evapotranspiration, harvesting, filtration and detention of stormwater.
- Master Plan = A long-range plan which integrates infrastructure requirements for existing and future land use. The Master Planning process must follow, at a minimum, the same steps of the first two phases of the MCEA process.
- MECP = Ministry of Environment, Conservation, and Parks.
- OGS = Oil-grit separator (a type of manhole to catch suspended solids).

GLOSSARY OF TERMS 2/2

- O&MM = Operation and Maintenance Manual which outlines inspection procedures, cleanout methods, etc. for stormwater infrastructure like stormwater management ponds.
- SWM = Stormwater Management.
- Stormwater Management:
  Means the management of stormwater run-off and may include:
  - the collection and transport of stormwater run-off, e.g., storm sewers; facilities which attenuate the hydrograph and detain stormwater runoff, e.g., detention/retention, infiltration.
  - facilities and means to treat and address the quality of stormwater run-off.
  - water management facilities which minimize impacts of wave action, flooding, erosion and bank and valley wall instabilities.
  - facilities which affect fisheries, such as fish ladders, wetlands operation and maintenance of the above.
- Stormwater Management Plan

  Establishes the selection of Best Management Practices, the specifics for design of control facilities and the details of protection measures and/or enhancement of rehabilitation programs to meet the objectives set by the Watershed and Subwatershed Plans.
- SWMF = Stormwater Management Facility (pond or other).
- SWMMP = SWM Master Plan.
- TP = Total Phosphorus, consisting of suspended and dissolved phosphorus, is a nutrient which, in excess amounts, has detrimental effects on aquatic health.

PURPOSE OF MASTER PLAN



The SWM Master Plan (SWMMP) shall be an integrated approach that considers the performance of the existing storm infrastructure and its impacts on localized flooding.

The plan shall integrate existing policies, regulations, acts and guidelines and where appropriate develop new policies and design guidelines to aid in implementation and shall do so within a water sustainability context.

STORMWATER ISSUE AREAS

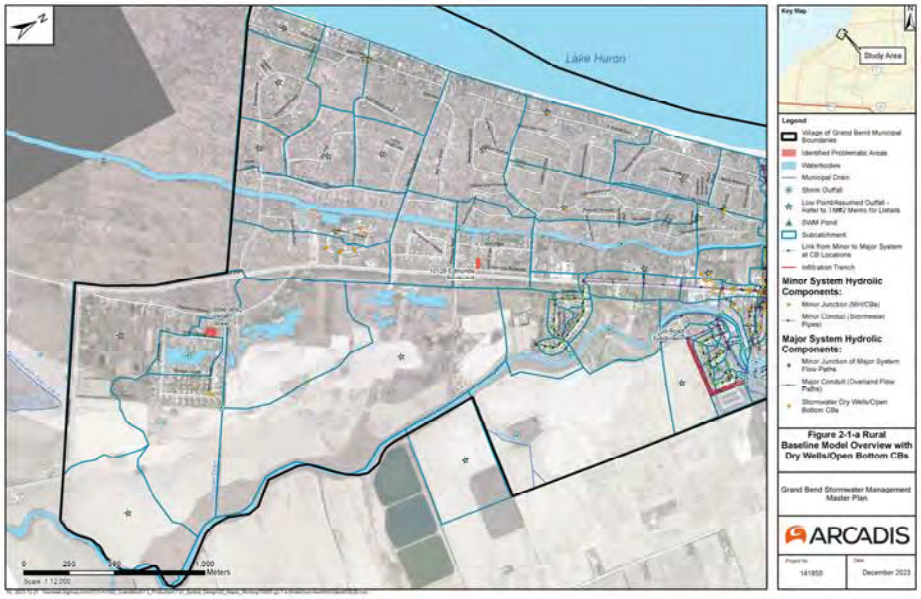


Figure 2-1-a Showing known areas identified by the Municipality or Stakeholders as experiencing flooding during rainfall events.

RJ0

STORMWATER ISSUE AREAS

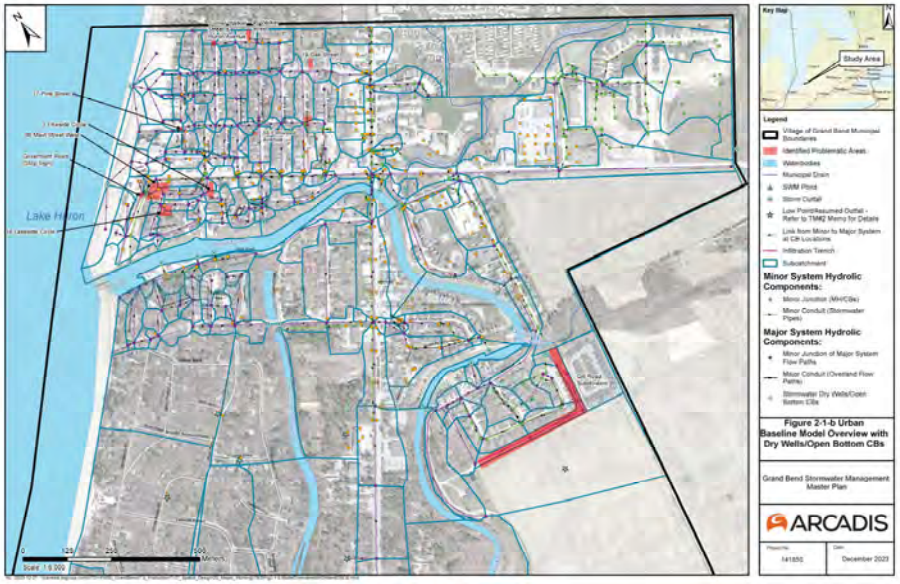


Figure 2-1-b Showing known areas identified by the Municipality or Stakeholders as experiencing flooding during rainfall events.

RJ0

STORMWATER MANAGEMENT ALTERNATIVES

Based on a review of the available information on the watershed, existing infrastructure, known flooding areas, and the hydrology/hydraulic model results, we have identified the following alternatives for the SWMMP:

- **New/Retrofit Storm Sewers**: Areas experiencing flooding may be alleviated by the installation of new or larger storm sewers, additional catch basins, or inlet control devices. Only addresses conveyance, not quality control, etc.
- **Traditional SWM Strategy (Ponds):** Reduces high flow rates and erosion potential and phosphorus loading, therefore reducing damage to the environment and property. Ponds do not increase baseflow, improve infiltration, or reduce runoff volumes.
- **Traditional SWM with Best Management Practices [BMP] Implementation Strategy**: This approach consists of SWM ponds in conjunction with BMPs/Low Impact Developments [LID]. This combination can reduce water balance deficit, decrease volumetric runoff, increase baseflow, reduce erosion, reduce peak flows, and reduce phosphorus loading.
- **Traditional SWM with Retrofit Strategy**: This approach consists of SWM ponds in conjunction with BMPs/LIDs; or application of BMPs.

A combination of storm sewer system upgrades, best management practices, and low impact development form the preferred alternative. They are illustrated on the following slides.

STORMWATER MANAGEMENT PREFERRED ALTERNATIVE

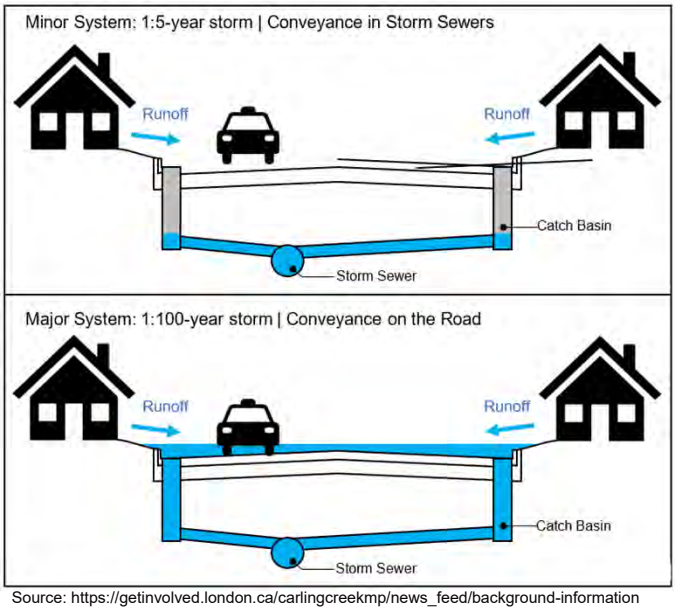
The objective of this assessment is to study flood vulnerable areas to identify short-term and long-term infrastructure improvements. Following the completion of the baseline model and assessment of the results, potential solutions to reduce flooding in the Study Area were developed based on different flooding conditions and service types.

A combination of storm sewer system upgrades, best management practices, and low impact development form the preferred alternative. They are illustrated on the following slides.

MINOR AND MAJOR SYSTEMS

The Stormwater Conveyance System is divided into two components:

- The Minor System which refers to the catch basins, maintenance holes and pipes (sewers) that convey stormwater below the ground; and
- The Major System which refers to the roads and ditches that convey stormwater above ground (also referred to as overland flow). The major system is designed to convey larger, infrequent rainfall events.



Source: https://getinvolved.london.ca/carlingcreekmp/news_feed/background-information

STORM SEWER SURCHARGE

In areas where the sewer system is surcharged in a 5-year storm, and significant surface flooding occurs in the major system, there is no sufficient pipe capacity and pipes may need to be upgraded.



Source: https://armtec.com/case-studies/markham-storm-sewer/



Storm Sewer surcharge during large event

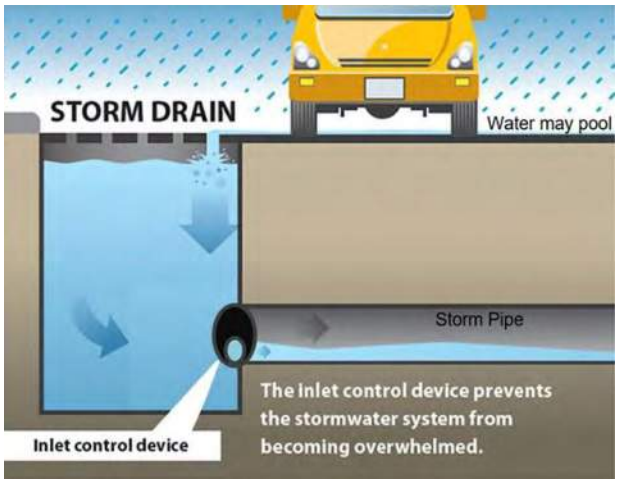
Source: https://sustainablestormwater.org/2007/04/27/serious-storm-drain-surcharge/

INLET CONTROL DEVICES (ICDs)

In areas where the sewer system is surcharged but no significant flooding occurs in the major system during a 100-year storm, ICDs can be applied to reduce the water level within the sewers.

Inlet Control Devices (ICDs) are used to control flow into storm sewers during peak flow events. It is designed to allow a specified flow volume out of a catchbasin at a specified head. This causes the excess stormwater to be temporarily stored above ground.

It also forces flow towards lower catch basins which reduces the load on that section of pipe.



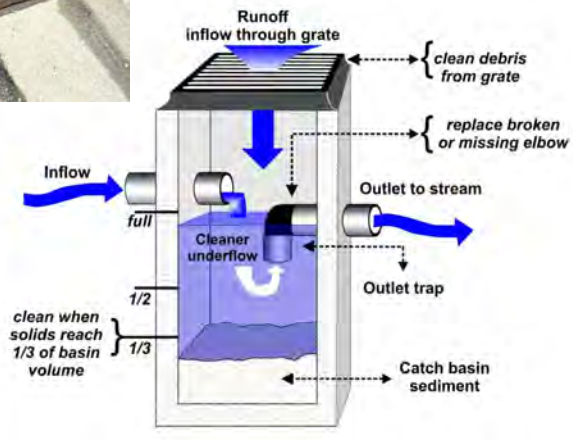
Source: https://www.calgary.ca/water/stormwater/storm-drains.html

ADDITIONAL CATCH BASINS (INLETS)

Additional catch basins or curb inlets were applied in all appropriate locations along roadways that experience significant ponding resulting in surface flooding during a 100-year storm. This enables flows to enter the storm sewers more readily.



Source: https://masterdrain.ca/what-is-a-catch-basin/



STORMWATER MANAGEMENT PREFERRED DETAILED RECOMMENDATIONS

The following section presents the findings and detailed recommendations for the Study Area. The Study Area was subdivided into various urban flooding areas and the large rural area based on general overland and minor system drainage focusing on locations with identified flooding issues.

In order to provide a level of protection for the homes within the area, solution development will consider both the minor system hydraulic grade line and the depth of ponding in the major system. Specific methodologies for solution development varied based on the flooding conditions and servicing type present throughout the Study Area.

STORMWATER MANAGEMENT PREFERRED ALTERNATIVE

Main Street West

Additional catch basins or curb inlets (8 CBs) were applied at low point locations along roadways that experience significant ponding resulting in surface flooding. Also, ICDs were applied to areas where the minor system required additional capacity in order to alleviate the HGL and allow for additional inlet capacity at other locations.

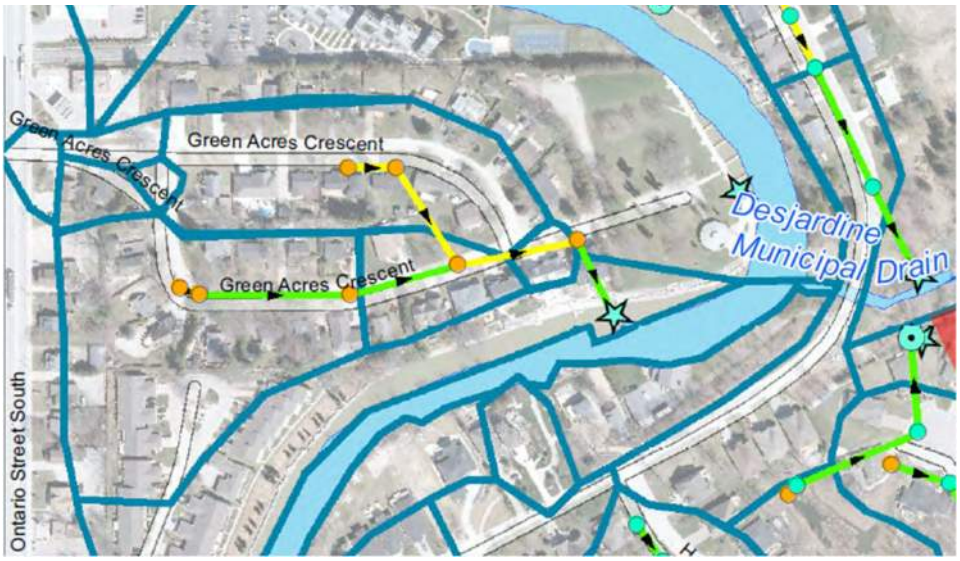
Upgrades to the storm sewers can prevent ICDs from increasing the risk of basement flooding. Minor pipe upgrades were also considered as long-term infrastructure improvements and will benefit the minor system performance for the area. LID measures are also recommended to reduce localized surface flooding for small storm events (5-year). For areas that is not feasible for LID measures or LIDs are ineffective in controlling overland flows (low point at 25 Main Street West), grading improvements may be required.



STORMWATER MANAGEMENT PREFERRED ALTERNATIVE

Green Acres Crescent

In the Green Acres Crescent neighborhood, the downstream storm sewers are over capacity with relatively low depth of flow on the road. Thus, the major system has additional capacity to convey more flow on roadways without increasing the risk of surface flooding. ICDs improve the level of service to reduce the risk of basement flooding in the area and do not result in a large increase of ponding on roadways.



STORMWATER MANAGEMENT PREFERRED ALTERNATIVE

Urban Residential Area without sewers

There are some localized ponding issues within the residential areas where there is no existing sewer system. Some properties in the area had experienced significant flooding in the past. The installation of proposed storm sewer is recommended, and it will improve the performance in the whole areas. It is also recommended to revise the grading and provide positive outlet for the overland flow routes to avoid ponding at low points. Since the soil type of sand provides good infiltration, LID measures are recommended to reduce localized surface flooding for small storm events. To achieve the target reduction of ponding depth, several bioretention/infiltration features could be considered:

- Bio-swales that capture and infiltrate runoff from the adjacent road and residential lots.
- Small bioretention traplows at the corner of the residential area, which capture and infiltrate back-of-lot runoff.
- Residential lots will be required to drain all roof runoff to pervious surfaces (lawns, gardens, natural vegetation, etc.).

LIDs were applied to the upstream catchment areas of the low points with no overland outlets.

Due to the expense and complexity of installing new storm sewers throughout this entire area, any work should be considered in the context of budgets and carried out during other scheduled works.



STORMWATER MANAGEMENT PREFERRED ALTERNATIVE

Rural Residential Area

There are some localized ponding issues within the rural residential areas where there is no existing sewer system. Historical flooding was reported by some property owners. The installation of proposed storm sewer is recommended, and it will improve the performance in the whole areas.

It is also recommended to revise the grading and provide a positive outlet for the overland flow routes to avoid ponding at low points. In addition, since the soil type of sand provides good infiltration, LID measures are recommended to reduce localized surface flooding for small storm events.

Due to the expense and complexity of installing new storm sewers throughout this entire area, any work should be considered in the context of budgets and carried out during other scheduled works.



OTHER PROBLEM AREAS

HARBOURSIDE VILLAGE/ERIN PLACE

The drainage ditch on Erin Place was constructed to divert water from the agricultural land to the south. It previously flowed through a natural ravine that existed prior to the subdivision being developed. The ditch itself is entirely on private property which limits the Municipality's ability to address it.

The Municipality has been negotiating with the owner of the agricultural lands to create an alternative outlet for the water which may be completed under the Drainage Act or under some sort of other pre-development agreement.



OTHER PROBLEM AREAS

WILBERT STREET

A pre-existing gravel pit retains stormwater.

A local resident believes that the outlet may be blocked.

The Municipality does not own it and consequently cannot address any issues at this time.



NEXT STEPS

- All comments from this PIC (**must be received by May 8th, 2024**) will be reviewed by the Project Team and used to help define the Preferred Solutions.
- The formal Master Plan document will be finalized, incorporating information gathered in this PIC. The Master Plan report will document the EA process and be published on the project website.
- The project website will be updated, and a Notice will be published, alerting the public that the 30-day public review period for this Class EA has commenced.
- If there are no outstanding issue or Part II orders, all 'Schedule B' projects identified in this Master Plan my proceed to final design, approvals and construction upon completion of the 30-day public review period.
- Projects identified as 'Schedule C' in the Master Plan must complete Phases 3-5 of the Municipal Class EA process before proceeding to design/approvals/construction.

Please fill out your comment sheet so that your questions or concerns can be addressed through this EA Process.

PRIVACY INFORMATION

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the Ministry of the Environment, Conservation and Parks for the purpose of transparency and consultation. The information is collected under the authority of the Environmental Assessment Act or is collected and maintained for the purpose of creating a record that is available to the public as described in Section 37 of the Freedom of Information and Protection of Privacy Act.

Personal information you submit will become part of a public record that is available to the public unless you request that your personal information remain confidential.

For more information, please contact the Project Office or the Ministry of the Environment's Freedom of Information and Privacy Coordinator at 416-327-1434.



MUNICIPALITY OF LAMBTON SHORES
Sam Shannon
Infrastructure Manager
519-243-1400 Ext. 8215
sshannon@lambtonshores.ca

ARCADIS
Roy Johnson
Senior Project Manager
Roy.johnson@arcadis.com

THANK YOU!

The Municipality of Lambton Shores

Sign-In Sheet

Public Information Centre (PIC) #2

Wednesday, April 10th, 2024

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT
STORMWATER MANAGEMENT MASTER PLAN

Please provide your name below. Thank you for attending the public meeting.

Please Print

Dianne Taylor
~~[illegible]~~ GRUND
Bob Sellar
Melanie Eveland
Patrick Eveland
Jay & Diane Scholl

The Municipality of Lambton Shores

Comment Sheet

Public Information Centre (PIC) #2

Wednesday, April 10th, 2024

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT
STORMWATER MANAGEMENT MASTER PLAN

Thank you for attending the public meeting. Please provide your comments on any of the material presented.

I expressed my concern about underground water appearing directly behind my property at 32 Ella Place. This occurs because of broken & and/or faulty underground drainage tile and pipe. I have photos and videos of this occurrence which happens every time it rains. →

(Please turn over if additional space is required.)

Please complete your comment sheet this evening and place in the comment box provided OR send your completed comment sheet by **May 8, 2024** to:

Sam Shannon
Infrastructure Manager
E: sshannon@lambtonshores.ca

Roy Johnson, P.Eng., Senior Project Manager, Water Resources Engineering
Arcadis IBI Group
E: roy.johnson@ibigroup.com

Personal information contained on this form is collected under the authority of Section 29(2) of the *Municipal Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, c.M.56 as amended. Any comments received will be collected under the Act and, with exception of personal information, will become part of the public record.

Name / Organization: PATRICK EVELAND

Address: [redacted]

City / Town: GRAND BEND Postal Code: N0M 1T0

Email Address: Pgeveland@hotmail.com

Please check a box if you would like to be added to our mailing list to be informed of the publication of the EA.

☐ mailing address ☑ email

Public Information Centre (PIC)

Wednesday, April 10th, 2024

VILLAGE OF GRAND BEND

CLASS ENVIRONMENTAL ASSESSMENT STORMWATER MANAGEMENT PLAN

Even during a minor rainfall, significant ponding occurs because water from most of this field is collecting behind my house. While this is an ongoing problem with even rainfall, it is particularly damaging when combined with other conditions, such as frozen ground and additional surface runoff from an adjacent agricultural field. The property owner is obligated, I understand by The Drainage act, to repair this problem so that his runoff does not flood and damage neighbouring private property.

P. Eveland

Johnson, Roy

From: Harry Grund [redacted]
Sent: Wednesday, April 24, 2024 10:54 AM
To: nverhoeven
Cc: sshannon; Glen Baillie; Dianne Taylor; Ryan Griffin; Johnson, Roy; Stephen McAuley
Subject: Re: Erin Place, Grand Bend - Rear Yard Drainage Concerns

You don't often get email from hgrund320@gmail.com. Learn why this is important

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Thanks for the quick reply, Nick.

Re 'private property', how does Lambton Shores deal with other bylaw violations on private property (eg. loud parties, noxious weeds complaints, building or zoning issues)?

Re the condo ROW, the next time upstream flooding occurs, affected landowners should contact the condo board for relief because the condo-related infrastructure caused the flooding?

Please advise.

Harry

On Wed, 24 Apr 2024 at 10:30, Nick Verhoeven <nverhoeven@lambtonshores.ca> wrote:

> Hi Harry,
>
> Regarding the first point those items are entirely on private property. The Municipality has no right of entry on private property for those purposes. I have mentioned previously we are negotiating for a solution with the owner of the farm lands.
>
> The culvert and laneway are on lands privately owned by the Condo board and therefore any maintenance requirements are their responsibility.
>
> Thanks,
>
> Nick

Nick Verhoeven, P.Eng.

Director of Public Works

This message is directed in confidence solely to the person(s) named above and may contain privilege, confidential, or private information which is not to be disclosed. If you are not the addressee or an authorized representative thereof, please contact the undersigned and then destroy this message."

From: Harry Grund [redacted]>
Sent: Wednesday, April 24, 2024 10:11 AM
To: Nick Verhoeven <nverhoeven@lambtonshores.ca>
Cc: Sam Shannon <sshannon@lambtonshores.ca>; Glen Baillie <gbaillie@lambtonshores.ca>; Dianne Taylor <taylord@hay.net>; Ryan Griffin <rgriffin@lambtonshores.ca>; Johnson, Roy <roy.johnson@arcadis.com>
Subject: Re: Erin Place, Grand Bend - Rear Yard Drainage Concerns

Hi Nick and Sam,

Nick - thanks for the Dec 2018 report. Looking at the recommendations on page 6, items 3 and 4 remain unresolved. This is unacceptable after 5 years. What is being done to finally rectify these?

Sam - thanks for confirming the condo access ROW ownership. Is there an agreement between Lambton Shores and the condo board that identifies responsibility and who pays for culvert and ditch maintenance during emergencies? If not, why not?

Please reply to this email at your earliest convenience.

Dianne Taylor and Harry Grund

On Tue, 16 Apr 2024 at 14:07, Nick Verhoeven <nverhoeven@lambtonshores.ca> wrote:

> Hi Harry,
>
> I promised to send you the attached report. It was on a council agenda in December 2018.

Thanks,

Nick

Nick Verhoeven, P.Eng.

Director of Public Works

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From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Tuesday, April 16, 2024 1:29 PM
To: Harry Grund [redacted]>
Cc: Glen Baillie <gbaillie@lambtonshores.ca>; Dianne Taylor <taylord@hay.net>; Nick Verhoeven <nverhoeven@lambtonshores.ca>; Ryan Griffin <rgriffin@lambtonshores.ca>; Johnson, Roy <roy.johnson@arcadis.com>
Subject: RE: Erin Place, Grand Bend - Rear Yard Drainage Concerns

Good afternoon Harry,

Thanks again for attending and providing your 4/4 email comments. I am copying Arcadis into this email chain, so your comments form part of our Master Plan project file.

I have our Drainage Superintendent (Ryan) investigating the OMAFRA item and hope to have an update on that item soon. The right-of-way adjacent to the Sunrise Lane Condo Development, if we are referring to the area we discussed, is not owned by the Municipality and forms part of that Development.

Please do not hesitate to contact me should you have any questions.

Regards,

Sam Shannon

Infrastructure Manager

519-243-1400 ext. 8215

9577 Port Franks Road, Thedford, ON N0M 2N0





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From: Harry Grund [redacted]>
Sent: Friday, April 12, 2024 11:10 AM
To: Nick Verhoeven <nverhoeven@lambtonshores.ca>; Sam Shannon <sshannon@lambtonshores.ca>
Cc: Glen Baillie <gbaillie@lambtonshores.ca>; Dianne Taylor <taylord@hay.net>
Subject: Fwd: Erin Place, Grand Bend - Rear Yard Drainage Concerns

This is the first email you've received from this external sender.
Do not click links or open attachments unless it is an email you expected to receive.

Good morning Nick and Sam,

Thanks for speaking with us at Wednesday's PIC.

As discussed, I'm sending you prior info regarding the Erin Place drainage problem; this is email 1 of 4.

Below is the thread regarding the swale obstructions at 24 Erin Place and downstream. After the PIC, we observed the property owner placing patio stones in the swale, thereby damming the upstream runoff. The results are obvious with the past 2 days' rain - see photo below (taken this morning). Clearly a blatant violation of the approved drainage plan, so when will Lambton Shores finally enforce compliance with the plan?

Also, as discussed at the PIC:

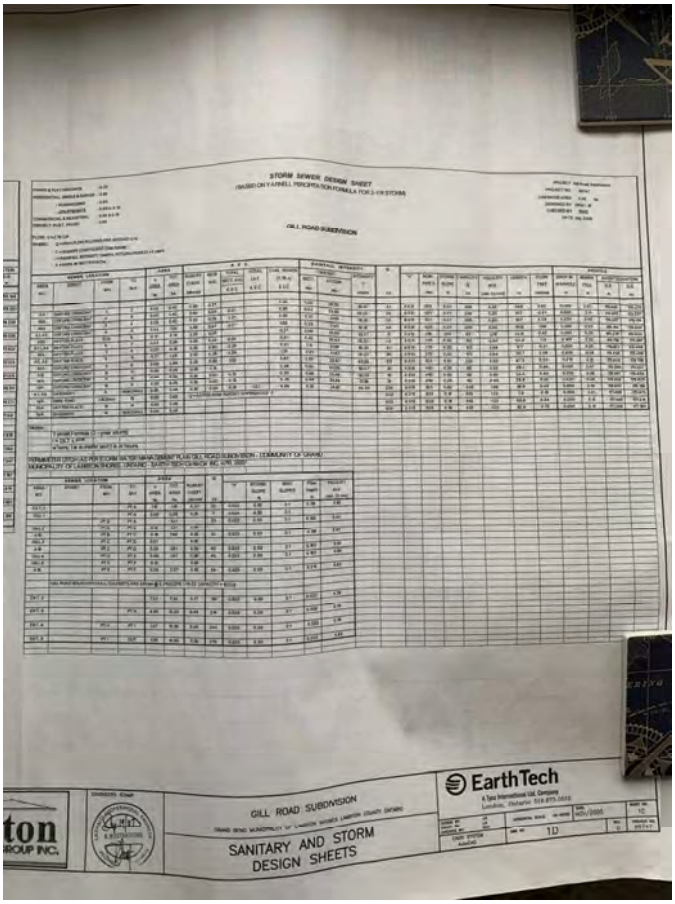
- Who owns the right-of-way to the Sunrise Lane condo development?
- The other photo below shows the storm sewer design sheet from Earth Tech's 2007 engineering drawings for the 'Gill Road Subdivision', referencing a 2 year storm.

Three additional emails will follow. Please confirm that these concerns are documented in the final SWMMP report.

Thanks,

[redacted]





---------- Forwarded message ---------
From: **Dianne Taylor** <taylord@hay.net>
Date: Fri, 26 Aug 2022 at 13:57
Subject: Re: Erin Place, Grand Bend - Rear Yard Drainage Concerns
To: Ryan Griffin <rgriffin@lambtonshores.ca>
Cc: Dave Maguire <dmaguire@lambtonshores.ca>, Bill Weber <bweber@lambtonshores.ca>

Hello

It appears the 'landscaping' at [redacted] (Harborside Village) is ongoing to the near completion of a 'retaining wall' construction encroaching INTO the required swale.

Are we awaiting full completion of the project, flooding and household damage?

Or is there an alternate plan?

As taxpayers who take great pride in their home (and community), we would expect Lambton Shores to enforce existing drainage capacity to mitigate potential flooding caused by downstream violations resulting in household damage.

Thank you

[redacted]

Sent from my iPad

> On Aug 24, 2022, at 9:22 AM, Ryan Griffin <rgriffin@lambtonshores.ca> wrote:
>
> Good Morning [redacted],
>
> We will kindly remind property owners along the rear yard drainage plan of their obligation to conform to the lot grading plan and requirements, to ensure that the ditch isn't blocked or restricted in capacity.
>
> Thank you for bringing this to our attention.
>
> LAMBTON SHORES
>
> **Ryan Griffin**
>
> *Drainage Superintendent*
>
> 9575 Port Franks Road
>
> Thedford, ON N0M 2N0

(P) 519-243-1400 ext. 8211

Toll Free 1-866-943-1400

www.lambtonshores.ca

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From: [redacted]>
Sent: Tuesday, August 23, 2022 4:16 PM
To: Ryan Griffin <rgriffin@lambtonshores.ca>
Cc: Dave Maguire <dmaguire@lambtonshores.ca>; Bill Weber <bweber@lambtonshores.ca>; Dianne Taylor <taylord@hay.net>
Subject: Erin Place, Grand Bend - Rear Yard Drainage Concerns

Good afternoon Ryan,

This email is to make you aware of 'landscaping' that is underway at [redacted]. Apparently the building of a 'retaining wall' will protect this property from future flooding. See the photos below.

We understand and appreciate home owners maintaining and protecting their properties. However, as [redacted] and others to the east have already impeded flow in the rear yard swale with the placement of rockery, bridge and other items, we fear that more structures will further impede water flow that is to pass from upstream properties through this property and further down the swale. The municipality is already on record about this problem in the Aug 26 2019 letter from Lambton Shores, instructing individual property owners to comply with the approved design intent of a grassed surface in the swale by removing obstructions they placed in the swale.

As taxpayers and to protect our property, we request your assurance that any 'landscaping, retaining walls, etc' built in the swale will not negatively affect our property further than already experienced from downstream property owners' actions.

Kindly confirm receipt of this email.

Thank you.

[redacted]

[redacted]

Grand Bend





Virus-free.www.avast.com

Johnson, Roy

From: Mentley, Ryan (MTO) <Ryan.Mentley@ontario.ca>
Sent: Thursday, April 25, 2024 12:57 PM
To: Johnson, Roy
Subject: RE: Grand Bend SWMMP: TM4 and PIC2
Attachments: wnot_PIC2_20240314_Final.pdf

You don't often get email from ryan.mentley@ontario.ca. Learn why this is important

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Hi Roy,

Thank you for circulating the Ministry of Transportation (MTO) with the Grand Bend Stormwater Management Master Plan. The submission has been considered in accordance with the *Public Transportation and Highway Improvement Act* and MTO's highway access management guidelines. The following outlines MTO's comments.

There does not appear to be new installations within the Highway 21 property limit. Please note that any new crossing or upgrade to an existing crossing will require MTO review/permit and shall be installed in accordance with MTO requirements. Parallel installations within the Highway 21 property limit are discouraged. MTO recommends and welcomes pre-consultation for any work within the vicinity of the Highway 21 property limit.

Please add me to future circulations.

Thank you,

Ryan Mentley
Corridor Management Planner
Highway Corridor Management Section
Ministry of Transportation
659 Exeter Road, London ON, N6E 1L3
Tel: (519) 878-4026
Fax: (519) 873-4228
Ryan.Mentley@Ontario.ca

From: Johnson, Roy <roy.johnson@arcadis.com>
Sent: March 19, 2024 10:04 AM
To: G Cade <gcade@abca.ca>; Andrew Henry <ahenry@huronelginwater.ca>; Bechard, Marc (MECP) <Marc.Bechard@ontario.ca>; Billy Haklander <bhakland@huronelginwater.ca>; Don Giberson <dgiberson@southhuron.ca>; Donna Clarkson <dclarkson@abca.ca>; EA Notices to SWRegion (MECP) <eanotification.swregion@ontario.ca>; Erin McLeod <emcleod@huronelginwater.ca>; faye.johnson@wifn.org; fburch <fburch@cottfn.com>; info@dfo-mpo.gc.ca; info@itstartsatthebeach.ca; Ranger, Jason (MTO) <Jason.Ranger@ontario.ca>; John Walker <jwalker@huronelginwater.ca>; Macki, Monika (MECP) <Monika.MacKi@ontario.ca>; Marcus Schaum <mschaum@huronelginwater.ca>; Marcy McKillop <mmckillop@huronelginwater.ca>; Mari Veliz <mveliz@abca.ca>; Mary Lynn MacDonald <mmacdonald@abca.ca>;

Matt.deline@county-lambton.on.ca; MEA Notices to Director EAAB (MECP) <MEANOTICESEAAB@ontario.ca>; nverhoeven <nverhoeven@lambtonshores.ca>; OP Habitat (DFO/MPO) <DFO.OPHabitat.MPO@dfo-mpo.gc.ca>; prj141850 (20221 – Engineering Services – Grand Bend Stormwater Management Master Plan) (prj141850@ibigroup.com) <prj141850@ibigroup.com>; Rebekah Msuya-Collison <clerk@southhuron.ca>; sshannon <sshannon@lambtonshores.ca>; sao@nawash.ca; sfn@saugeen.org
Cc: prj141850 (20221 Engineering Services Grand Bend Stormwater Management Master Plan) <prj141850@arcadis.com>
Subject: Grand Bend SWMMP: TM4 and PIC2

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi

The Grand Bend Stormwater Management Master Plan Technical Memorandum #4 is now available on the Lambton Shores Website:

https://www.lambtonshores.ca/en/our-government/grand-bend-stormwater-management-masterplan.aspx

Public Information Centre #2 is scheduled for Wednesday, April 10th, 2024 5pm-7pm (see attached). To be held at the Royal Canadian Legion in Grand Bend.

If you have any questions, please feel free to contact me.

Regards;
Roy Johnson (he/him/his) B.Eng., MA.Sc., P.Eng.
Senior Project Manager, Water Resources Engineering
Arcadis Professional Services (Canada) Inc.
roy.johnson@arcadis.com
www.arcadis.com

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Smales, Karen

From: Marcy McKillop <mmckillop@huronelginwater.ca>
Sent: Tuesday, February 20, 2024 4:04 PM
To: Sam Shannon
Cc: Marcus Schaum; Andrew Henry; Billy Haklander; Nick Verhoeven; Johnson, Roy; Mary Lynn MacDonald; Donna Clarkson; Submissions
Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection
Attachments: WTR_TM4_Impl_Plan_Draft_2024-FEB.pdf

Hi Sam,

Thank you for providing a draft of Technical Memorandum No. 4. LHPWSS will review and provide comments to you for consideration, by next Thursday, February 29.

Regards,

Marcy McKillop, P.Eng. (she/her)
Environmental Services Engineer, Regional Water Supply

Lake Huron & Elgin Area Primary Water Supply Systems
235 North Centre Road, Suite 200
London, Ontario N5X 4E7
T: 519-930-3505 ext. 4976
E: mmckillop@huronelginwater.ca
https://huronelginwater.ca
www.facebook.com/RegionalWaterSupply

The Lake Huron and Elgin Area Primary Water Supply Systems serve communities and people within the traditional lands of the Anishinaabek, Haudenosaunee, Lūnaapéewak and Attawandaron. We honour and respect the history, languages and culture of the diverse Indigenous people who call this territory home. This region is currently home to many First Nations, Inuit and Métis. We are grateful to have the opportunity to work and live in this territory.

From: Sam Shannon <sshannon@lambtonshores.ca>
Sent: Tuesday, February 20, 2024 2:19 PM
To: Marcy McKillop <mmckillop@huronelginwater.ca>
Cc: Marcus Schaum <mschaum@huronelginwater.ca>; Andrew Henry <ahenry@huronelginwater.ca>; Billy Haklander <bhakland@huronelginwater.ca>; Nick Verhoeven <nverhoeven@lambtonshores.ca>; Johnson, Roy <roy.johnson@arcadis.com>; Mary Lynn MacDonald <mmacdonald@abca.ca>; Donna Clarkson <dclarkson@abca.ca>; Submissions <submissions@huronelginwater.ca>
Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection
Importance: High

Good afternoon Marcy,

Following up on the below email/subsequent phone conversation we had, attached you will find a DRAFT of Technical Memorandum #4 (TM) that likely better elaborates on the proposed recommendations currently recommended for the SWMMP.

We still need to have our second PIC but won't do so until we have the opportunity to workshop/finalize this memorandum.

As with the previous TM's, I will leave this with your group for a couple of weeks to review. Offer stands that we can have a meeting (in-person or virtual, whatever is preferred) to go over things.

Please do not hesitate to contact me should you have any questions.

Regards,

Sam Shannon
Infrastructure Manager
519-243-1400 ext. 8215
9577 Port Franks Road, Thedford, ON N0M 2N0



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To: 'Marcy McKillop' <mmckillop@huronelginwater.ca>
Cc: Marcus Schaum <mschaum@huronelginwater.ca>; Andrew Henry <ahenry@huronelginwater.ca>; Billy Haklander <bhakland@huronelginwater.ca>; Nick Verhoeven <nverhoeven@lambtonshores.ca>; Johnson, Roy <roy.johnson@arcadis.com>; Mary Lynn MacDonald <mmacdonald@abca.ca>; Donna Clarkson <dclarkson@abca.ca>; Submissions <submissions@huronelginwater.ca>
Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection

Good afternoon Marcy,

We appreciate both ABCA and LHPWSS's interest and engagement in the ongoing SWMMP. I can offer the below responses in RED at this time, and as the project continues, we will ensure to engage the group before information is presented to the public.

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Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection

Good afternoon Sam,

Thank for providing the Lambton Shores Stormwater Management Master Plan Technical Memorandum No. 3.

The LHPWSS supports best engineering practices for stormwater management quantity and quality control, including associated design standards and controls to be implemented. This includes the improvement of water quality within the intake protection zones. Please confirm and comment on stormwater design standards and controls to be required for new development, as well as for upgrade/ replacement of existing infrastructure. This information forms part of Technical Memorandum #4 which you will see a DRAFT of shortly.

With the adoption of LIDs, the LHPWSS encourages best municipal practices for ongoing operation and maintenance.

Based on the recommendations of this Master Plan, we do need to clearly understand implications to intake protection zone #2 (IPZ-2). Proposed alterations and modifications to the existing storm sewer system may impact the travel time requirement associated with the delineation IPZ-2, and may trigger the need for remodeling. Both Arcadis and the Municipality understand from the Ausable Bayfield Source Protection Area Assessment Report that the inland area of IPZ-2 was previously approximated as a combination of the urban area of Grand Bend plus the adjacent tile drained area. Since the sewershed area is not expected to change, no updates to the IPZ-2 are considered necessary at this time. Information on the storm sewer travel times at the outlet compared to the existing can be provided if requested. As areas within IPZ-2 have ongoing existing stormwater issues for which this SWMMP is looking to recommendations on how we can address some of these issues, we can look at the proposed alternatives in closer detail as a group.

Please continue to engage with ABCA and LHPWSS regarding this Master Plan and other planning and development matters, based on the intake protection zones of the Lake Huron Water Treatment Plant.

Best regards,

Marcy McKillop, P.Eng. (she/her)
Environmental Services Engineer, Regional Water Supply

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T: 519-930-3505 ext. 4976
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Marcy McKillop, P.Eng. (she/her)
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Good morning Marcy,

As per LHPWSS's request, included in the below links you will find a finalized DRAFT of Technical Memorandum #3 (TM3) for your team's review/comment. I know the City sometimes has issues with Google products, so hopefully one of these two links works. TM3 has not been formally finalized, posted on our website, or provided to the public in any capacity so it is still deemed internal at this stage. Recognizing that we want to ideally keep the project moving forward, but also that folks are just returning from holidays, hopefully three (3) weeks is enough time for your group to send back any comments you may have?

WRTR_TM#3_Draft (with appendices & figures)-12-20.pdf

https://drive.google.com/file/d/1HvhPDOvY4sS1zz49vLVMe3snXn61vnlR/view?usp=sharing

Our focus is currently working on the next PIC (noting we haven't picked a date or anything yet) and working through the next Technical Memorandum #4. All documents related to both still sit with Arcadis and haven't been provided to the Municipality for review in any capacity.

I am also happy to set up a meeting as requested if you wanted to talk through anything. Just let me know.

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THE MUNICIPALITY OF LAMBTON SHORES
vibrant - diverse - sustainable

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Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection

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Please add the LHPWSS, Ausable Bayfield Conservation Authority (ABCA), and Ausable Bayfield Maitland Valley Drinking Water Source Protection Committee to the Master Plan contact list, so that we are all made aware of future project updates and engaged in the project as key stakeholders. The LHPWSS formally requests an opportunity to review and comment on any subsequent Master Plan alternatives and recommendations, before they are presented to the public at the second public information centre.

Thank you in advance,

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Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection

Good morning Mary Lynn,

It was nice to speak with you as well, and thanks again for attending. We will ensure that forms part of the conversations and decision making going forward.

Please do not hesitate to contact me should you have any questions.

Regards,

THE MUNICIPALITY OF LAMBTON SHORES

Sam Shannon
Infrastructure Manager

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or 1-866-943-1400

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Sent: Monday, July 24, 2023 11:34 AM
To: Sam Shannon <sshannon@lambtonshores.ca>; Roy.johnson@ibigroup.com
Cc: Donna Clarkson <dclarkson@abca.ca>; Aaron Clarke <aclarke@abca.ca>; Andrew Henry (ahenry@huronelginwater.ca) <ahenry@huronelginwater.ca>
Subject: Comments on SWM Masterplan - Grand Bend re Source Water Protection

Hi Sam and Roy,

It was good to speak with you last week at the Open House regarding the Grand Bend Stormwater Master Plan and Source Water Protection Intake Protection Zone mapping.

Further to our conversations, here is a digital copy of the map that I went over with you. As noted, part of the Intake Protection Zone-2 or 2-hour time of travel to the intake for the Lake Huron Primary Water Supply System falls in the proposed catchment area of the masterplan. The plant and intake at Port Blake supplies 375,000 residents in our surrounding area and London. Please take this into consideration as you move forward in your planning.

If you need any shape files or other mapping assistance, please contact our GIS Specialist, Aaron Clarke, cc'd above.

Thank you for keeping us informed as you develop this master plan and feel free to contact us anytime.

Mary Lynn

Mary Lynn MacDonald
Co-DWSP Program Supervisor/Risk Management Official

Ausable Bayfield Maitland Valley Source Protection Region, 71108 Morrison Line, RR 3 Exeter N0M 1S5
519-235-2610 ext. 247 www.sourcewaterinfo.on.ca

I may be working from home as well. My cell phone is 519-643-8112.

DRINKING WATER SOURCE PROTECTION
Our Actions Matter
Ausable Bayfield Maitland Valley Source Protection Region

My normal office days are Mon., Tues. and Thurs. or contact Donna Clarkson at dclarkson@abca.ca 519-335-3557 ext.224

Smales, Karen

From: Marcy McKillop <mmckillop@huronelginwater.ca>
Sent: Thursday, February 29, 2024 4:38 PM
To: Sam Shannon
Cc: Marcus Schaum; Andrew Henry; Billy Haklander; Nick Verhoeven; Johnson, Roy; Mary Lynn MacDonald; Donna Clarkson; Submissions; Brittany Bryans
Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection
Attachments: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection; WTR_TM4_Impl_Plan_Draft_2024-FEB.pdf

Hi Sam,

Thank you for providing Technical Memorandum No. 4 for review. The LHPWSS supports best engineering practices and development standards for stormwater management quantity and quality control. This includes the improvement of water quality within the intake protection zones.

It is the understanding of LHPWSS that there is no need to update the modelling associated with the Intake Protection Zones, based on the proposed recommendations in this Stormwater Management Master Plan.

Please feel free to arrange a meeting if any further discussion is needed.

Regards,

Marcy McKillop, P.Eng. (she/her)
Environmental Services Engineer, Regional Water Supply

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To: Sam Shannon <sshannon@lambtonshores.ca>
Cc: Marcus Schaum <mschaum@huronelginwater.ca>; Andrew Henry <ahenry@huronelginwater.ca>; Billy Haklander <bhakland@huronelginwater.ca>; Nick Verhoeven <nverhoeven@lambtonshores.ca>; Johnson, Roy <roy.johnson@arcadis.com>; Mary Lynn MacDonald <mmacdonald@abca.ca>; Donna Clarkson <dclarkson@abca.ca>; Submissions <submissions@huronelginwater.ca>
Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection

Hi Sam,

Thank you for providing a draft of Technical Memorandum No. 4. LHPWSS will review and provide comments to you for consideration, by next Thursday, February 29.

Regards,

Marcy McKillop, P.Eng. (she/her)
Environmental Services Engineer, Regional Water Supply

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Subject: RE: Comments on SWM Masterplan - Grand Bend re Source Water Protection
Importance: High

Good afternoon Marcy,

Following up on the below email/subsequent phone conversation we had, attached you will find a DRAFT of Technical Memorandum #4 (TM) that likely better elaborates on the proposed recommendations currently recommended for the SWMMP.

We still need to have our second PIC but won't do so until we have the opportunity to workshop/finalize this memorandum.

As with the previous TM's, I will leave this with your group for a couple of weeks to review. Offer stands that we can have a meeting (in-person or virtual, whatever is preferred) to go over things.

Please do not hesitate to contact me should you have any questions.

Regards,

Sam Shannon

Infrastructure Manager
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RJ0

STORMWATER MANAGEMENT MASTER PLAN – VILLAGE OF GRAND BEND

PRESENTATION TO COUNCIL

June 4, 2024

WELCOME TO THE COUNCIL PRESENTATION

RJ0

Information related to this project is available for public review on Lambton Shores' website.

Public Information Centre's were held July 20, 2023 and April 10, 2024.

This Study was initiated by the Municipality of Lambton Shores. Arcadis (formerly Arcadis-IBI Group) has been retained as the Lead Consultant on the project.

MUNICIPALITY OF LAMBTON SHORES

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ARCADIS

Roy Johnson

Senior Project Manager

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ACKNOWLEDGEMENT OF ANCESTRAL LANDS

We acknowledge that this land in the Study Area is part of the ancestral land of the Chippewa, Odawa, and Potawatomi peoples, referred to collectively as the Anishinaabeg. It is through the connection of the Anishinaabeg with the spirit of the land, water and air that we recognize their unique cultures, traditions, and values. Together as treaty people, we have a shared responsibility to act with respect for the environment that sustains all life, protecting the future for those generations to come.

Language Pronunciations:

Anishinaabeg (ah-nish-i-nah-beg)
Chippewa (chip-uh-wah)
Odawa (o-dah-wah)
Potawatomi (pot-uh-wah-tuh-mee)

BACKGROUND

The following outlines the proposed Stormwater Management Master Plan, specifically:

- Stating the goal of remedying the recurring reported localized flooding which occurs in various locations throughout Grand Bend (refer to the slides following for areas);
- Developing a long list of alternative solutions for addressing the stormwater concerns; and
- Recommending updates to the Municipality's stormwater engineering guidelines.

The outcome of this project has identified areas of concern; flow and water quality controls; system structural improvements; and operational improvements, as well as establishing level of service and performance metrics.

The final Master Plan has been crafted with the Municipality input based on technical analysis and modelling using a Municipality-wide model that includes all stormwater drainage features (minor/major) while taking into consideration other Municipality projects/initiatives for a strategic approach to stormwater drainage improvements and implementation.

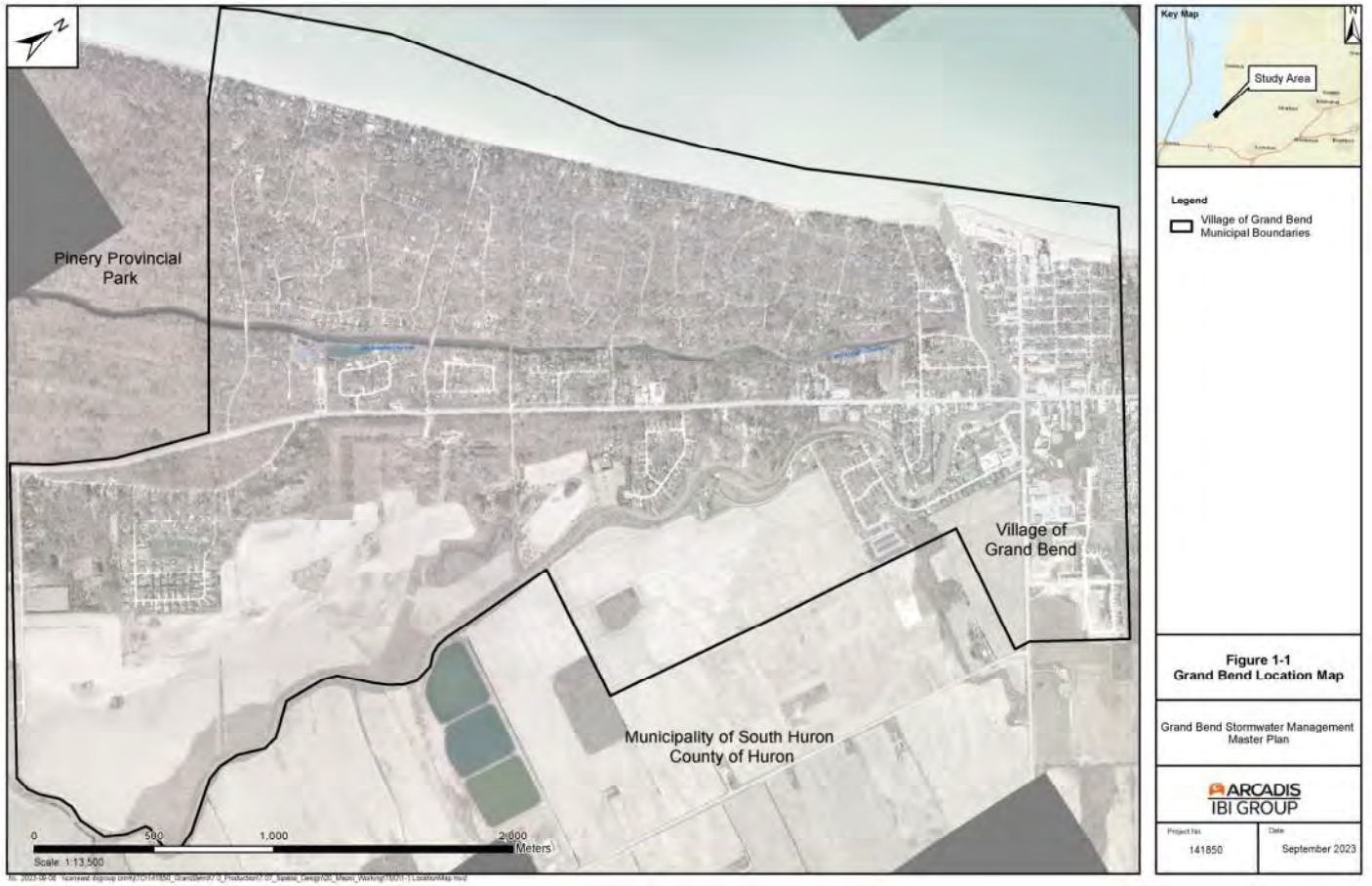


Figure 1.1 shows the Study Area included as part of the SWMMP

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PURPOSE, PROBLEM AND PROCESS

Purpose

This Council Presentation is intended to provide Council with an overview of the Master Planning process completed, and present the proposed alternatives and preferred solution prior to Master Plan finalization.

The Master Plan followed an integrated approach that considered the performance of the existing storm infrastructure and its impacts on localized flooding. The final Master Plan integrates existing policies, regulations, acts and guidelines and where appropriate developed new policies and design guidelines to aid in implementation and did so within a water sustainability context.

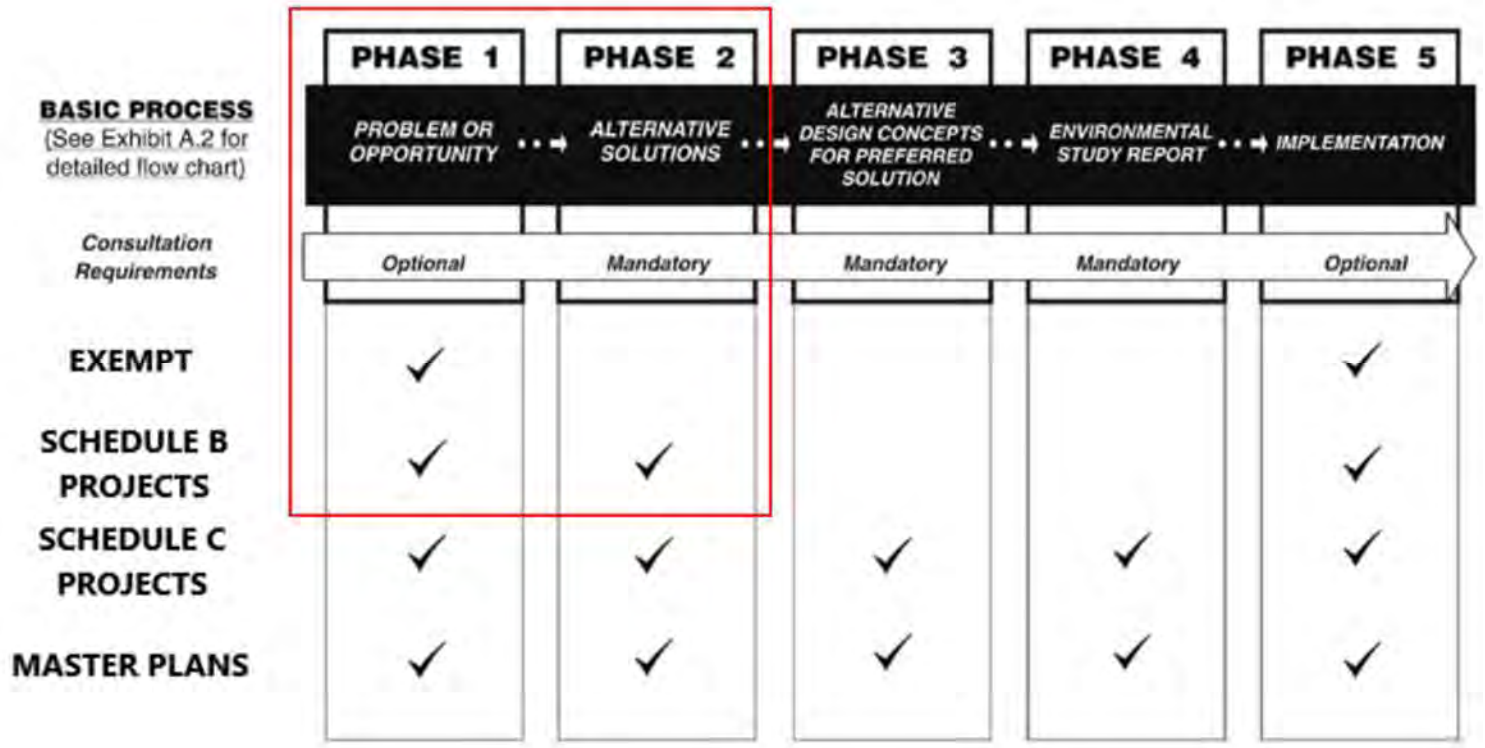
Problem/Opportunity Statement

This Stormwater Management Master Plan will identify current deficiencies and guide the implementation of stormwater drainage improvements now and into the future.

Environmental Assessment (EA) Master Plan Process

This project has followed the planning process set out in the Municipal Engineers Association's Municipal Class Environmental Assessment (Class EA) for Master Plans (Approach #2). Master Plans are to follow the same process as a 'Schedule B' and include at least Phase 1 and 2.

- Master Plans are defined as: A long range plan which integrates infrastructure requirements for existing and future land use with environmental assessment principles. At a minimum, a Master Plan addresses Phases 1 and 2 of the Municipal Class EA process.
- Given the Master Plan will minimally cover Phases 1 and 2, all projects identified in the Master Plan that are 'Schedule B' will be considered complete through the EA Process and may proceed to construction. Projects identified as 'Schedule C' will have to complete Phases 3 and 4 before they may proceed to construction.



STORMWATER PROBLEM AREAS

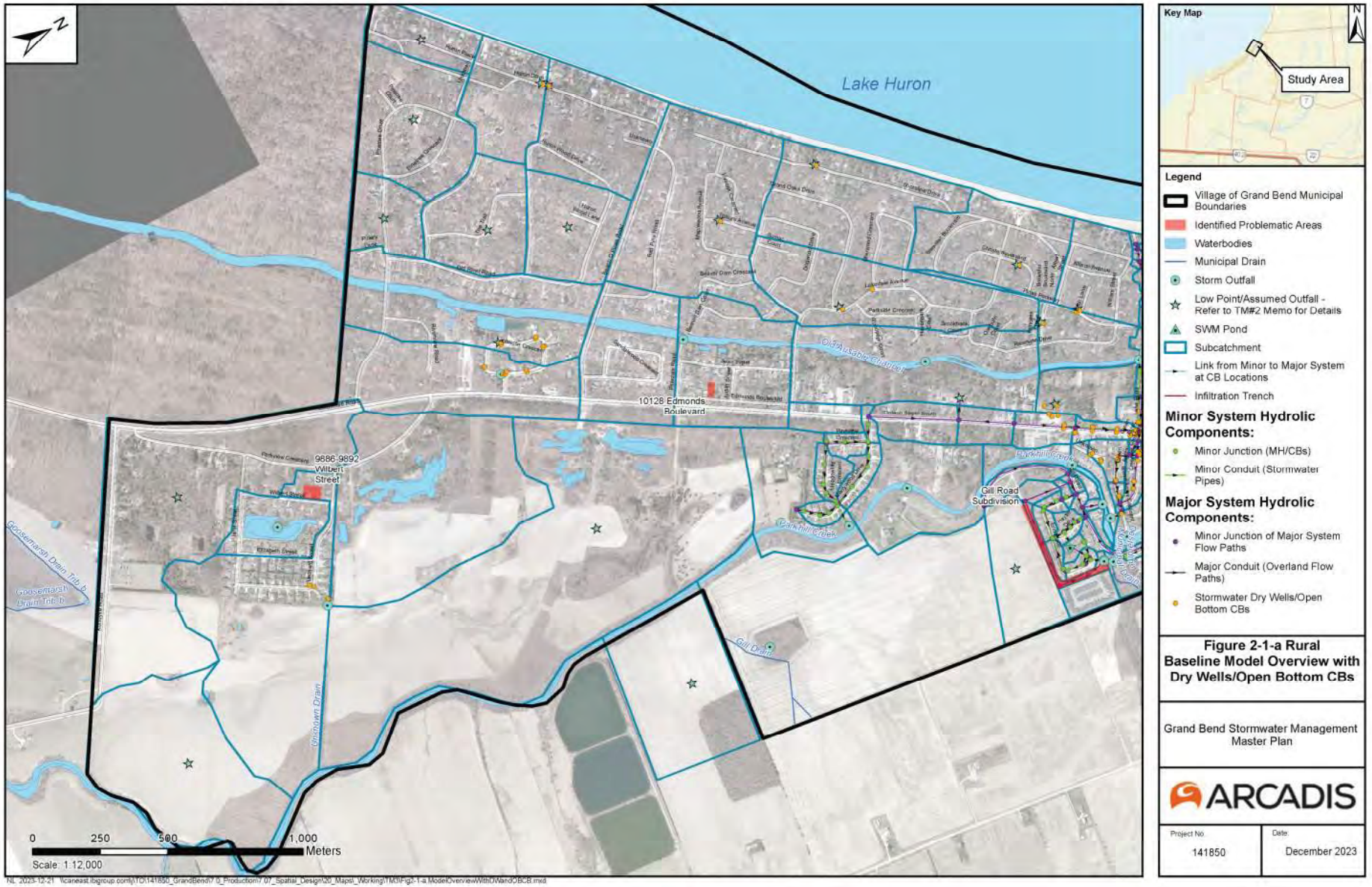


Figure 2-1-a Showing known areas identified by the Municipality or Stakeholders as experiencing flooding during rainfall events.

STORMWATER PROBLEM AREAS

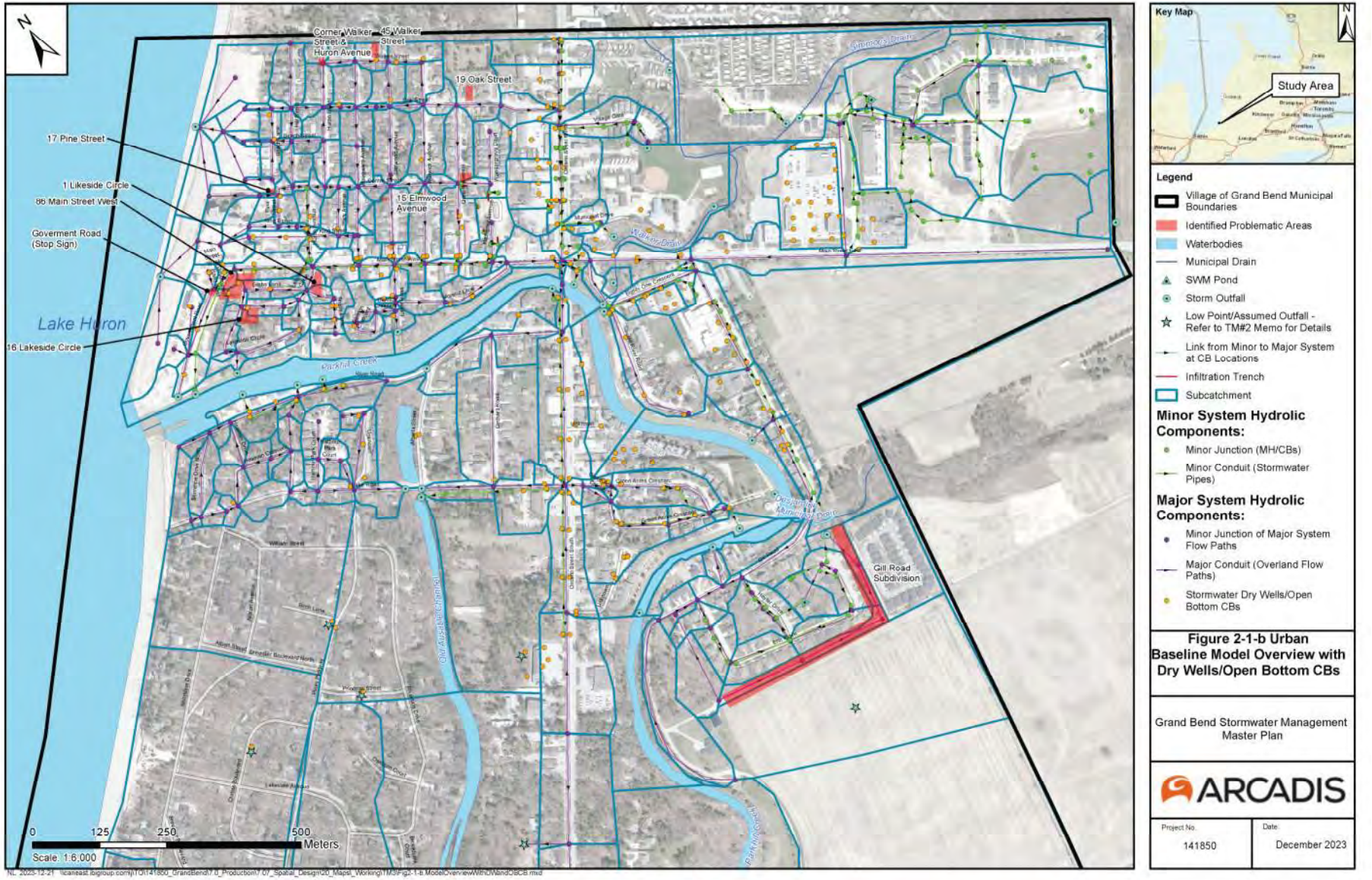


Figure 2-1-b Showing known areas identified by the Municipality or Stakeholders as experiencing flooding during rainfall events.

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STORMWATER MANAGEMENT ALTERNATIVES

Based on a review of the available information on the watershed, existing infrastructure, known flooding areas, and the hydrology/hydraulic model results, the following alternatives for the Master Plan have been identified:

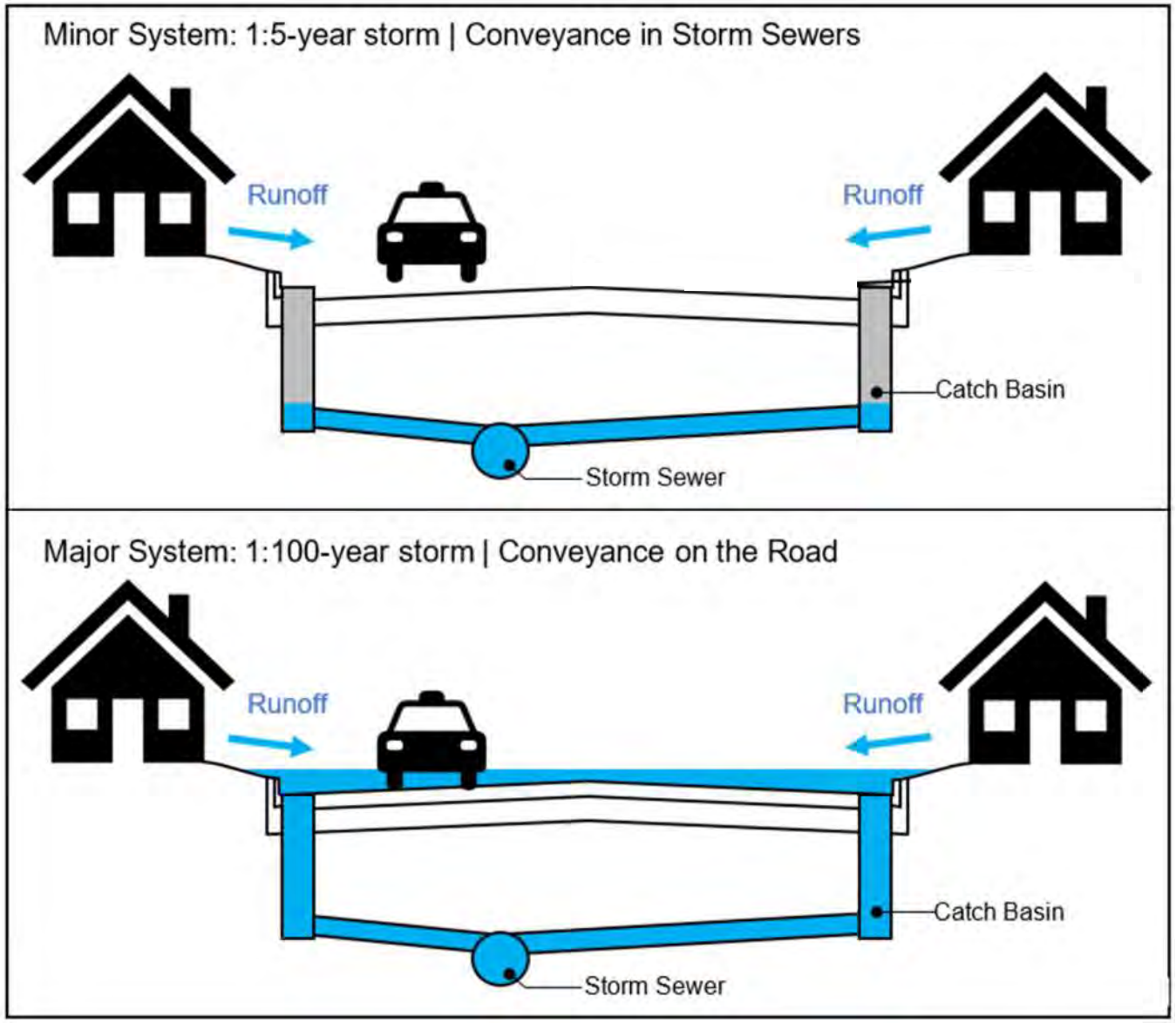
- **New/Retrofit Storm Sewers**: Areas experiencing flooding may be alleviated by the installation of new or larger storm sewers, additional catch basins, or inlet control devices. Only addresses conveyance, not quality control, etc.
- **Traditional SWM Strategy (Ponds):** Reduces high flow rates and erosion potential and phosphorus loading, therefore reducing damage to the environment and property. Ponds do not increase baseflow, improve infiltration, or reduce runoff volumes.
- **Traditional SWM with Best Management Practices**: This approach consists of stormwater management ponds in conjunction with Best Management Practices and Low Impact Developments. This combination can reduce water balance deficit, decrease volumetric runoff, increase baseflow, reduce erosion, reduce peak flows, and reduce phosphorus loading.
- **Traditional SWM with Retrofit Strategy**: This approach consists of stormwater management ponds in conjunction with Best Management Practices and Low Impact Developments; or application of Best Management Practices.

A combination of storm sewer system upgrades, best management practices, and low impact developments form the preferred alternative. They are further illustrated on the following slides.

MINOR AND MAJOR SYSTEMS

The Stormwater Conveyance System is divided into two components:

- The Minor System which refers to the catch basins, maintenance holes and pipes (sewers) that convey stormwater below the ground; and
- The Major System which refers to the roads and ditches that convey stormwater above ground (also referred to as overland flow). The major system is designed to convey larger, infrequent rainfall events.



Source: https://getinvolved.london.ca/carlingcreekmp/news_feed/background-information

STORM SEWER SURCHARGE

In areas where the sewer system is surcharged in a 5-year storm, and significant surface flooding occurs in the major system, there is no sufficient pipe capacity and pipes may need to be upgraded.



Source: https://armtec.com/case-studies/markham-storm-sewer/



Storm Sewer surcharge during large event

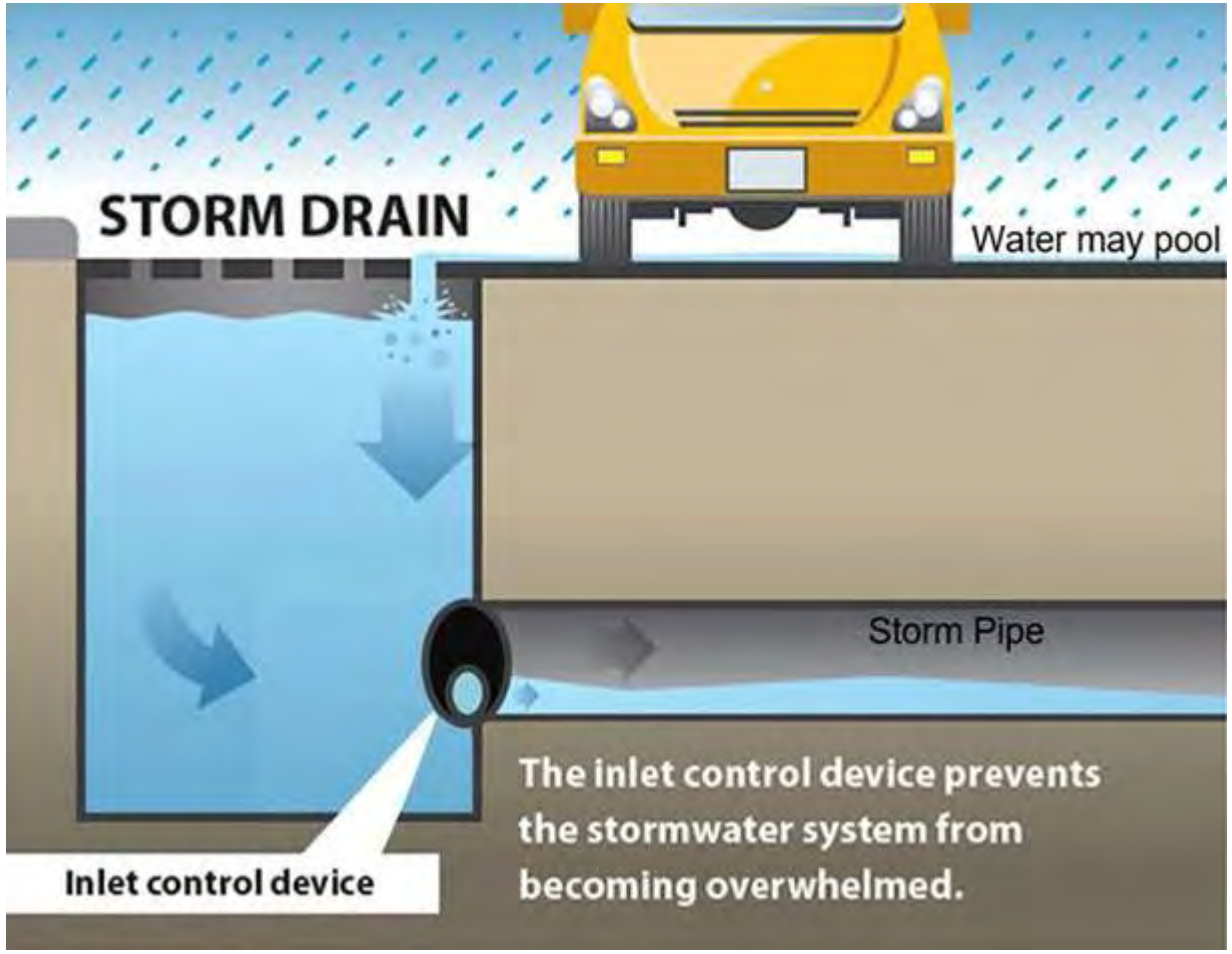
Source: https://sustainablestormwater.org/2007/04/27/serious-storm-drain-surcharge/

INLET CONTROL DEVICES

In areas where the sewer system is surcharged but no significant flooding occurs in the major system during a 100-year storm, Inlet Control Devices can be applied to reduce the water level within the sewers.

Inlet Control Devices are used to control flow into storm sewers during peak flow events. It is designed to allow a specified flow volume out of a catchbasin at a specified head. This causes the excess stormwater to be temporarily stored above ground.

It also forces flow towards lower catch basins which reduces the load on that section of pipe.



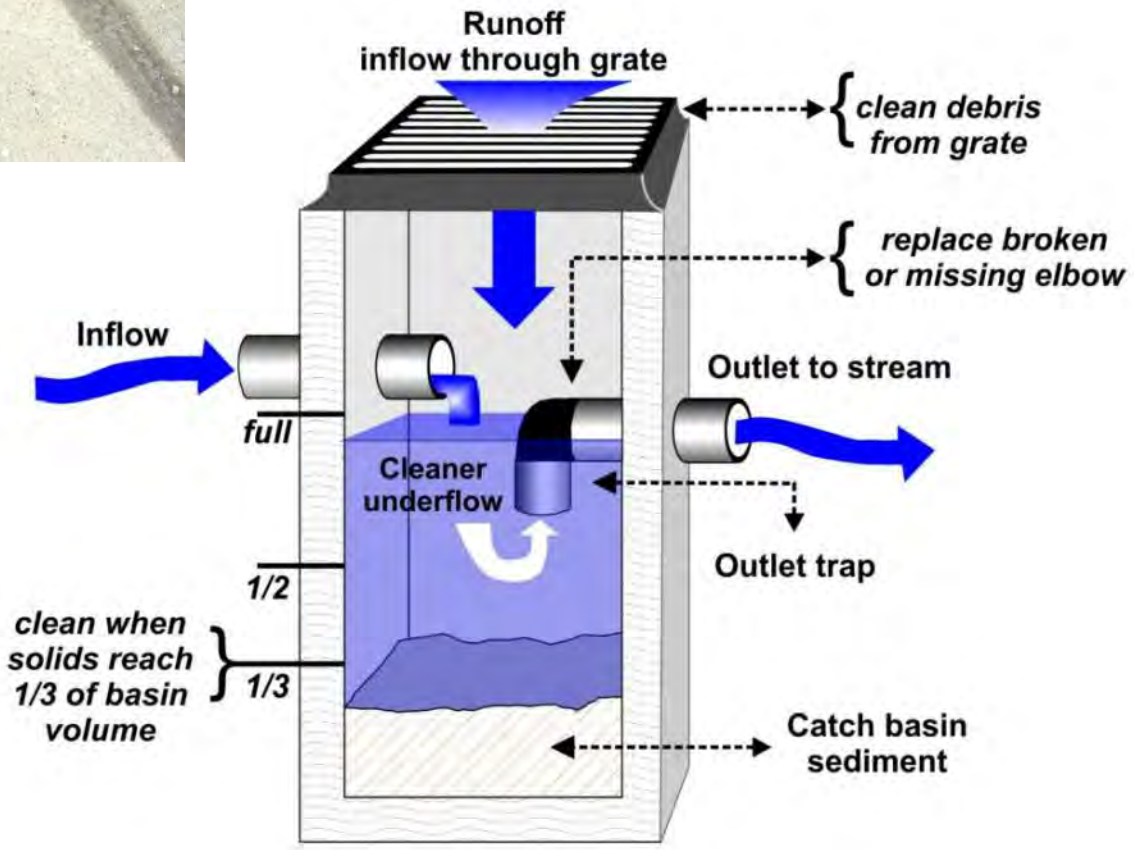
Source: https://www.calgary.ca/water/stormwater/storm-drains.html

ADDITIONAL CATCH BASINS (INLETS)

Additional catch basins or curb inlets applied in all appropriate locations along roadways that experience significant ponding resulting in surface flooding during a 100-year storm. This enables flows to enter the storm sewers more readily.



Source: https://masterdrain.ca/what-is-a-catch-basin/



STORMWATER MANAGEMENT PREFERRED DETAILED RECOMMENDATIONS

The following section presents the findings and detailed recommendations for the Study Area. The Study Area was subdivided into various urban flooding areas and the large rural area based on general overland and minor system drainage focusing on locations with identified flooding issues.

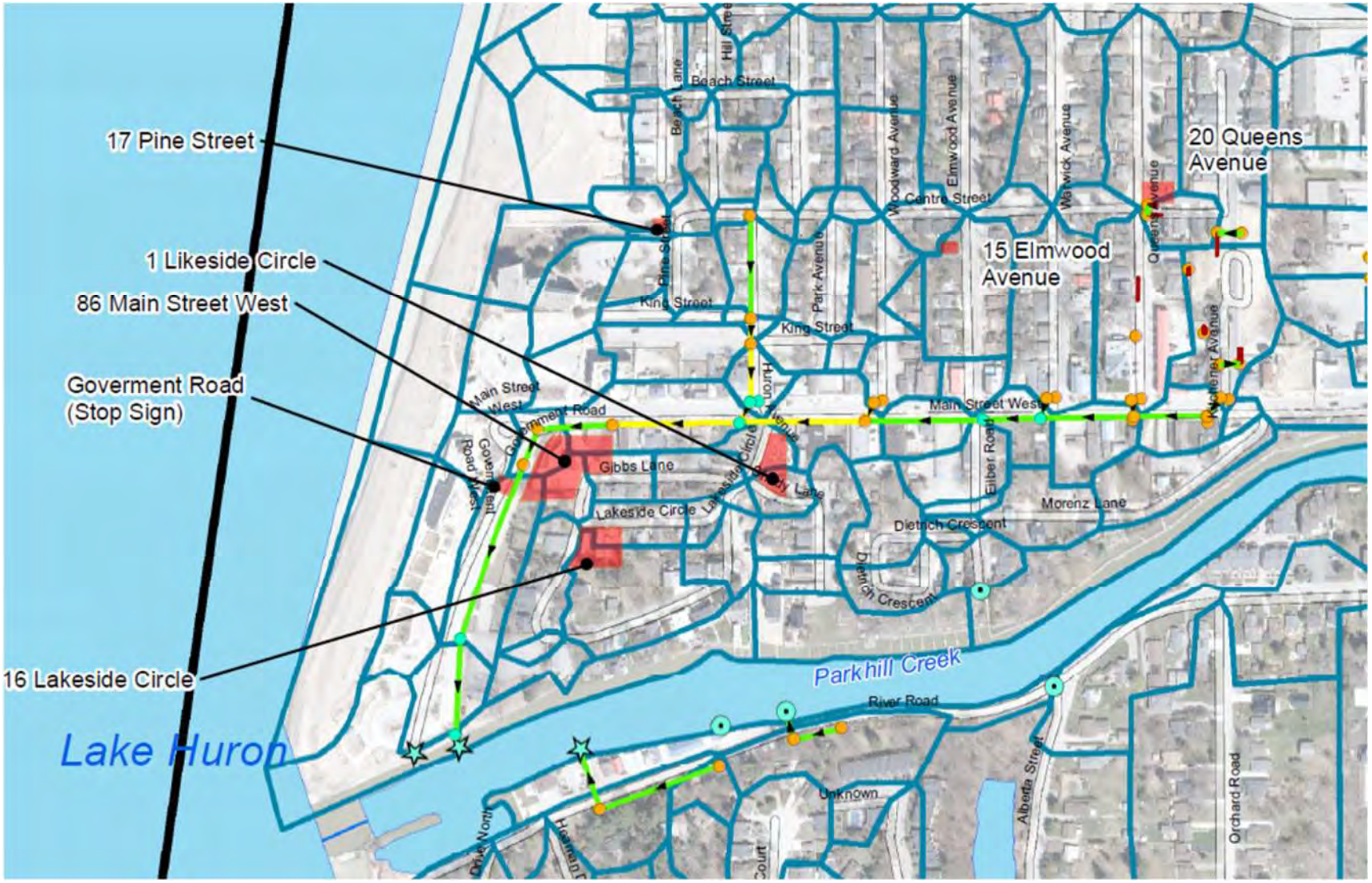
In order to provide a level of protection for the homes within the area, solution development considered both the minor system hydraulic grade line and the depth of ponding in the major system. Specific methodologies for solution development varied based on the flooding conditions and servicing type present throughout the Study Area.

STORMWATER MANAGEMENT PREFERRED ALTERNATIVES

Main Street West

Additional catch basins or curb inlets were applied at low point locations along roadways that experience significant ponding resulting in surface flooding. Also, Inlet Control Devices were applied to areas where the minor system required additional capacity in order to alleviate the hydraulic grade line and allow for additional inlet capacity at other locations.

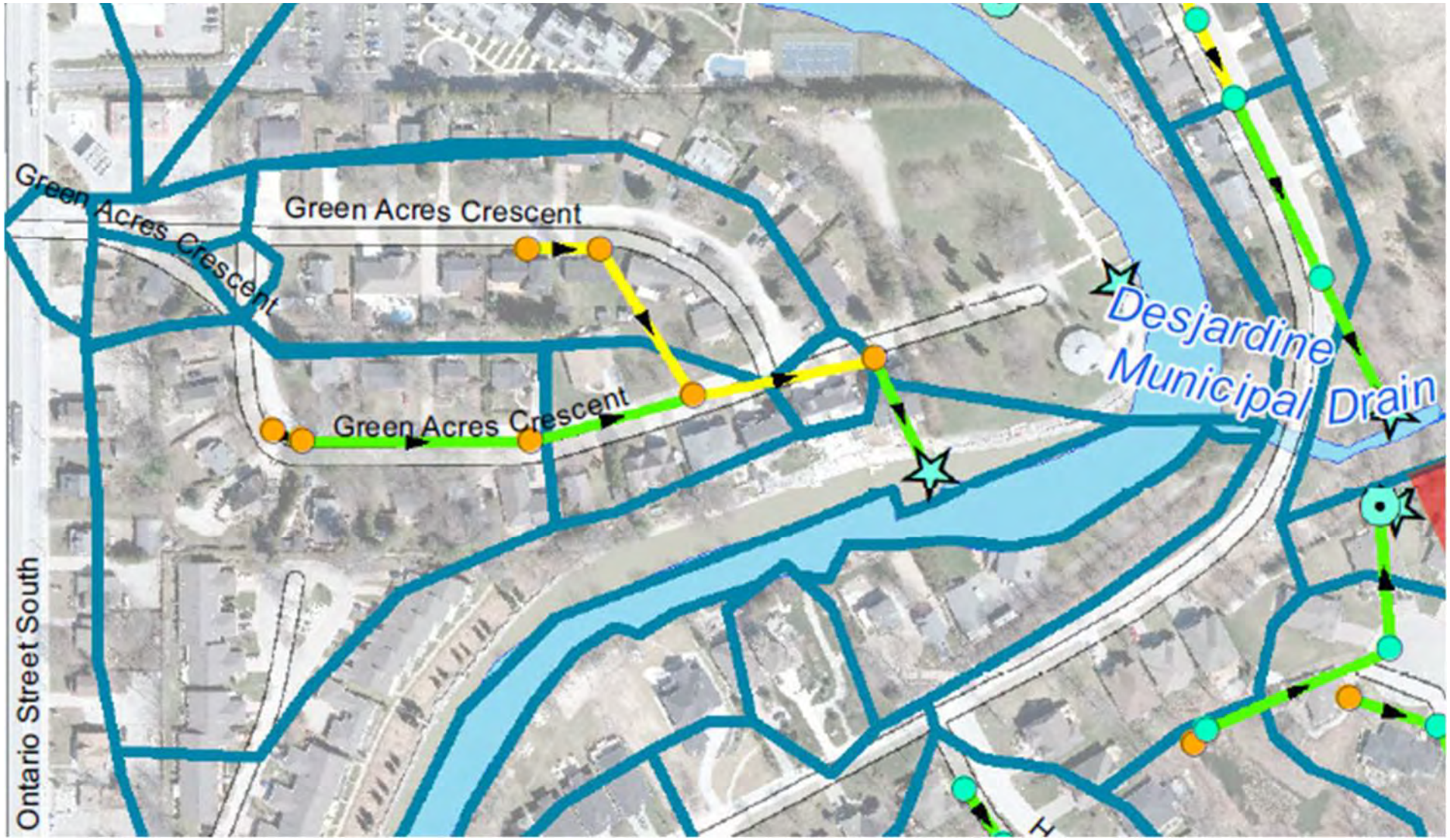
Upgrades to the storm sewers can prevent Inlet Control Devices from increasing the risk of basement flooding. Minor pipe upgrades were also considered as long-term infrastructure improvements and will benefit the minor system performance for the area. Low Impact Development measures are also recommended to reduce localized surface flooding for small storm events (5-year). For areas that are not feasible for Low Impact Development measures or Low Impact Development measures are ineffective in controlling overland flows, grading improvements may be required.



STORMWATER MANAGEMENT PREFERRED ALTERNATIVES

Green Acres Crescent

In the Green Acres Crescent neighborhood, the downstream storm sewers are over capacity with relatively low depth of flow on the road. Thus, the major system has additional capacity to convey more flow on roadways without increasing the risk of surface flooding. Inlet Control Devices improve the level of service to reduce the risk of basement flooding in the area and do not result in a large increase of ponding on roadways.



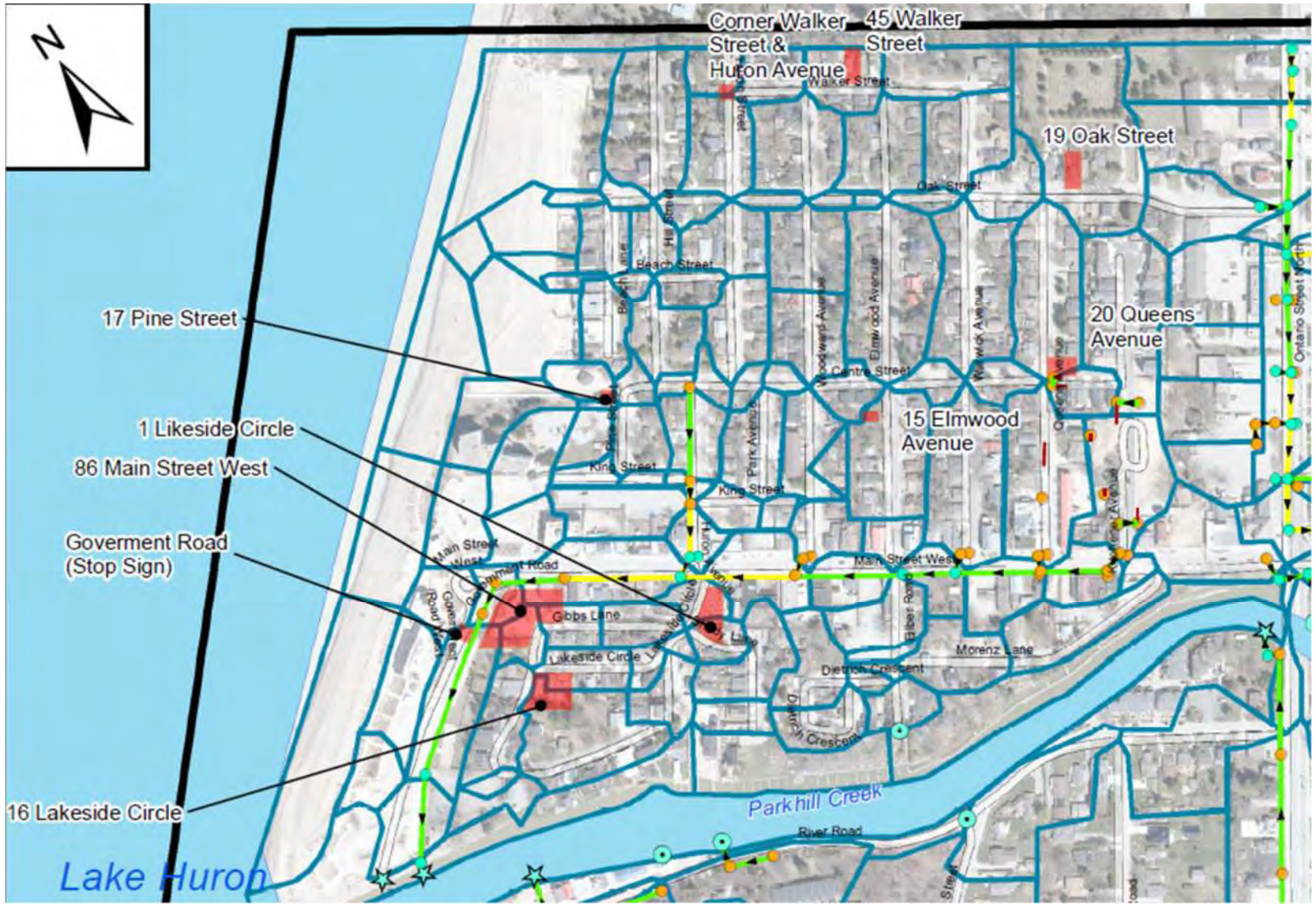
STORMWATER MANAGEMENT PREFERRED ALTERNATIVES

Urban Residential Areas Without Sewers

There are some localized ponding issues within the residential areas where there is no existing sewer system. Some properties in the area had experienced significant flooding in the past. The installation of proposed storm sewer is recommended, and it will improve the performance in the whole area. It is also recommended to revise the grading and provide positive outlet for the overland flow routes to avoid ponding at low points. Since the soil type of sand provides good infiltration, Low Impact Development measures are recommended to reduce localized surface flooding for small storm events. To achieve the target reduction of ponding depth, several bioretention/infiltration features could be considered:

- Bio-swales that capture and infiltrate runoff from the adjacent road and residential lots.
- Small bioretention traplows at the corner of the residential area, which capture and infiltrate back-of-lot runoff.
- Residential lots will be required to drain all roof runoff to pervious surfaces (lawns, gardens, natural vegetation, etc.).

Low Impact Developments were applied to the upstream catchment areas of the low points with no overland outlets.



Due to the expense and complexity of installing new storm sewers throughout this entire area, any work should be considered in the context of budgets and/or carried out during other scheduled works.

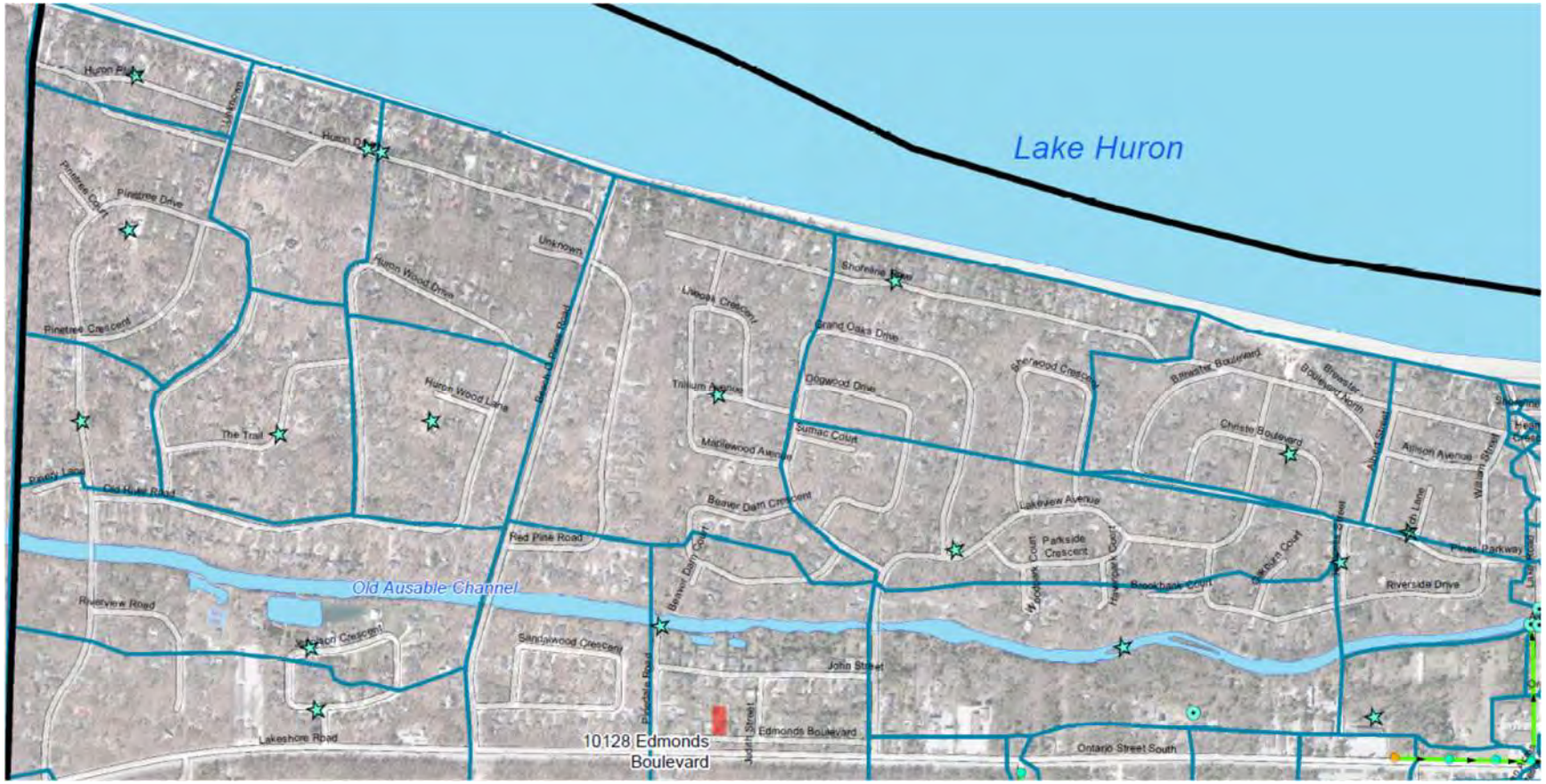
STORMWATER MANAGEMENT PREFERRED ALTERNATIVES

Rural Residential Areas

There are some localized ponding issues within the rural residential areas where there is no existing sewer system. Historical flooding was reported by some property owners. The installation of proposed storm sewer is recommended, and it will improve the performance in these areas as a whole.

It is also recommended to revise the grading and provide a positive outlet for the overland flow routes to avoid ponding at low points. In addition, since the soil type of sand provides good infiltration, LID measures are recommended to reduce localized surface flooding for small storm events.

Due to the expense and complexity of installing new storm sewers throughout this entire area, any work should be considered in the context of budgets and carried out during other scheduled works.



OTHER REPORTED PROBLEMATIC AREAS

HARBOURSIDE VILLAGE/ERIN PLACE

The rear yard drainage swale on Erin Place was originally constructed as part of the subdivision development intended to convey water through the development and divert water from the agricultural land to the south. It previously flowed through a natural ravine that existed prior to the subdivision being developed. The swale itself is entirely on private property which limits the Municipality's ability to address it.

The Municipality has been negotiating with the Owner of the agricultural lands to create an alternative outlet for the water which may be completed under the Drainage Act or under some sort of other pre-development agreement outside of this Master Plan.



OTHER REPORTED PROBLEMATIC AREAS

WILBERT STREET

A pre-existing gravel pit retains stormwater.

A local resident believes that the outlet may be blocked, though records indicate that the feature is not a formal stormwater management or retention facility, and may not even have an outlet.

The Municipality does not own it and consequently cannot address any issues.



COST ESTIMATES/BASIS - 1

ITEM #	DESCRIPTION	BID QTY.	UNIT	UNIT BID PRICE	TOTAL PRICE	ENGINEERING COST [1]
PRE	Mobilization/Demobilization, Project Start-up, Locates, Surveying, Weather Days, Office Trailers, Portable Washrooms and Hand Stations, Material Deliveries, etc.	1	LS	$620,000.00	$620,000.00	
1	Low Impact Development - Bioretention Cells	18	Ea	$41,000.00	$738,000.00	$52,000.00
2	Installation Of Inlet Control Devices	14	Ea	$24,250.00	$339,500.00	$24,000.00
3	Installation Of Additional Catch Basins	259	Ea	$25,000.00	$6,475,000.00	$453,250.00
4	Gill Road - 375mm Storm Sewer Upgrades	22	m	$1,250.00	$27,500.00	$5,500.00
5	Gill Road - 600mm Storm Sewer Upgrades	58	m	$1,350.00	$78,300.00	$15,500.00
6	Gill Road - 675mm Storm Sewer Upgrades	94	m	$1,500.00	$141,000.00	$28,000.00
7	Gill Road - 825mm Storm Sewer Upgrades	280	m	$1,800.00	$504,000.00	$98,500.00
8	Ontario Street North - 750mm Storm Sewer Upgrades	58	m	$1,700.00	$98,600.00	$19,500.00
9	Ontario Street North - 825mm Storm Sewer Upgrades	146	m	$1,750.00	$255,500.00	$51,000.00
10	Main Street West - 450mm Storm Sewer Upgrades	286	m	$1,300.00	$371,800.00	$72,000.00
11	Green Acres Crescent - 375mm Storm Sewer Upgrades	65	m	$1,150.00	$74,750.00	$14,500.00
12	Green Acres Crescent - 450mm Storm Sewer Upgrades	45	m	$1,200.00	$54,000.00	$10,000.00
				Sub-Total:	$9,777,950.00	$843,750.00

[1] Assumes 7% of construction cost for Inlet Control Devices/Catchbasin's, 20% for storm sewer upgrade.

Assumptions:

- This pricing has no costing associated with mandatory setbacks, no disconnections, or relocation has been included.
- Assumes an average of 20m of piping can be replaced and backfilled per day.
- With the current scope of work provided and due to current market volatility, pricing is budgetary and will need several final reviews upon firm pricing being provided.
- Material lead times determined at time of order subject to product availability.
- Minimal water management included in the pricing, as no borehole logs or data has been provided.
- All permits (if needed) completed by others. No costing for this has been included.
- Assumes no half load restrictions.
- This budget assumes high level restoration costs (hydroseeding, asphalt, concrete, decorative stones, landscaping beds/stones, bollards, vegetation, etc.).
- Quantities and prices rounded to the nearest even interval and shown as 2024 dollars.
- Total Price and Engineering Cost are separate overall values.

COST ESTIMATES/BASIS - 2

ITEM #	DESCRIPTION	BID QTY.	UNIT	UNIT BID PRICE	TOTAL PRICE	ENGINEERING COST [1]
				Sub-Total Carried Over:	$9,777,950.00	$843,750.00
13	Installation Of Residential Area Sewers	29,700	m	$1,295.00	$38,461,500.00	$7,692,300.00
14	Proposed Outfalls	18	Ea	$45,000.00	$810,000.00	$162,000.00
15	Restoration – Downtown Core	2,495	m	$1,050.00	$2,619,750.00	$523,950.00
16	Restoration – Residential Areas	7,098	m	$800.00	$5,678,400.00	$1,135,680.00
17	Restoration – Rural Areas	20,077	m	$500.00	$10,038,500.00	$2,007,700.00
18	Water Management	1	LS	$1,500,000.00	$1,500,000.00	$105,000.00
				Sub-Total:	$68,886,100.00	$12,470,380
				Contingency (5%)	$3,444,305.00	$623,519.00
				Grand Estimated Total:	$72,330,405.00	$13,093,899.00

[1] Assumes 7% of construction cost for Inlet Control Devices/Catchbasin's, 20% for storm sewer upgrade.

Assumptions:

- This pricing has no costing associated with mandatory setbacks, no disconnections, or relocation has been included.
- Assumes an average of 20m of piping can be replaced and backfilled per day.
- With the current scope of work provided and due to current market volatility, pricing is budgetary and will need several final reviews upon firm pricing being provided.
- Material lead times determined at time of order subject to product availability.
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- Assumes no half load restrictions.
- This budget assumes high level restoration costs (hydroseeding, asphalt, concrete, decorative stones, landscaping beds/stones, bollards, vegetation, etc.).
- Quantities and prices rounded to the nearest even interval and shown as 2024 dollars.
- Total Price and Engineering Cost are separate overall values.

REVISED STORMWATER MANAGEMENT CRITERIA

PARAMETER	CRITERIA	ARCADIS SUMMARY
Water Quality and Erosion Control	The water quality target is the long-term average removal of 80% of Total Suspended Solids on an annual loading basis from all runoff leaving the proposed development site based on the post-development level of imperviousness. Provide for 24-48 hr detention of runoff from a 25mm storm. Given the size of a typical site plan development, the storage volumes involved may not be feasible to meet the detention time requirement; therefore, a minimum orifice plate size of 75mm is acceptable. Consultants should provide either a design for meeting the requirements or justification for why it is not achievable.	80% TSS Removal (Enhanced) Retain 25mm storm (if feasible)
Quantity Control	The 100-year storm is the level of protection for properties, where feasible, against surface flooding from ponding on streets, For development sites <2ha, the proponent may use a simplified approach such as the Rational Method / IDF curves to compute peak flows. The stormwater management system shall be designed by using MIDUSS (current version) or an alternate approved hydrologic model. The Developer's Engineer shall consult the Conservation Authority as to the appropriate storm distribution and duration to be used. The Developer's Engineer shall advise the Municipal Engineer in writing as to the Authority's requirements. The design of the stormwater management system shall be in accordance with the latest version of the “Stormwater Management Practices, Planning and Design Manual”, as prepared by the Ministry of the Environment, Conservation and Parks.	Control 100-year post to 5-year pre.
Water Balance	Post development infiltration should be matched to pre-development levels, where “pre-development” represents open field or “greenfield” conditions.	Post to pre on an annual basis
Discharge Criteria	The design storm for the minor systems shall be the 5-year storm for new local storm sewers. In some areas of the Municipality a 2-year storm may be used where approved by the Municipality. The major system shall be designed to convey the 100-year storm event.	Arcadis would recommend the 5-year sewer be used for all minor systems and 100-year as the overland criterion
Climate Change	Use existing IDF data be used to set pre-development hydrologic data, and the updated IDF data for analysis of post-development hydrologic performance.	

NEXT STEPS

- The formal Master Plan document will be finalized, incorporating comments and information gathered from both Public Information Centre meetings. The Master Plan report will document the EA process and be published on the Municipality project website and be made available in hard copy at the Municipality office upon request for public review.
- A Notice of Study Completion will be published, alerting the public that the 30-day public review period for this Class EA has commenced.
- If there are no outstanding issues or Part II orders, all ‘Schedule B’ projects identified in this Master Plan may proceed to detailed design, approvals, and construction upon completion of the 30-day public review period.
- Projects identified as ‘Schedule C’ in the Master Plan must complete Phases 3-5 of the Municipal Class EA process before proceeding to design/approvals/construction.


THANK YOU!

Notice of Study Commencement
Class Environmental Assessment
Stormwater Management Master Plan (SWMMP)

The Municipality of Lambton Shores (Municipality) has retained Arcadis/IBI Group to develop a Stormwater Management (SWM) Master Plan (SWMMP) to establish a much-needed road map for the Municipality to advance the development of a comprehensive stormwater management strategy to address current and future needs within the Village of Grand Bend (Village). Refer to appended **Figure 1-1 Location Plan** for the Study Area extents.

As a Master Plan effort, a comprehensive approach is required looking at all stormwater systems throughout the Municipality to understand how they interact, where there are deficiencies, and where improvements are required now and in the future, focused specifically on the Village.

Stormwater systems include many components starting with overland conveyance systems (overland, road, and ditch), inlets and pipe collection systems, water quantity/quality features (end-of-pipe facilities, Low Impact Development (LID), etc.), outfalls, ditches, and receiving streams. Integral to stormwater management practice are quantity and quality control features (end-of-pipe storage, etc.) designed to minimize water quantity and quality impacts on natural systems and aquatic habitat, as well as protecting streams from erosion and managing flood levels.

The Village's SWMMP must consider the functional requirements of all stormwater services and how they work today and in the future. It needs to provide an acceptable level of service and meet regulatory requirements in accordance with watershed drainage plans, recognizing the constraints imposed by topography and other local considerations.

The Municipality recognizes the need to develop a SWMMP to identify current and future servicing requirements and establish an overall strategy to improve services. The SWMMP process is relatively straightforward as it follows the Class Environmental Assessment (Class EA) process for Master Plans requiring a review of background information, preparation of hydrologic/hydraulic modelling tools, system assessment with a problem/opportunity statement, and the development and evaluation of projects/strategies to meet level of service objectives.

The project is being planned under Schedule B of the Municipal Class EA process.

For further information on the project, or on the planning process being followed consult

lambtonshores.ca/GrandBendSWMMP

or contact:

Sam Shannon, Infrastructure Manager, 9575 Port Franks Road, Thedford, ON N0M 2N0, (P) 519-243-1400 Ext.8215, sshannon@lambtonshores.ca

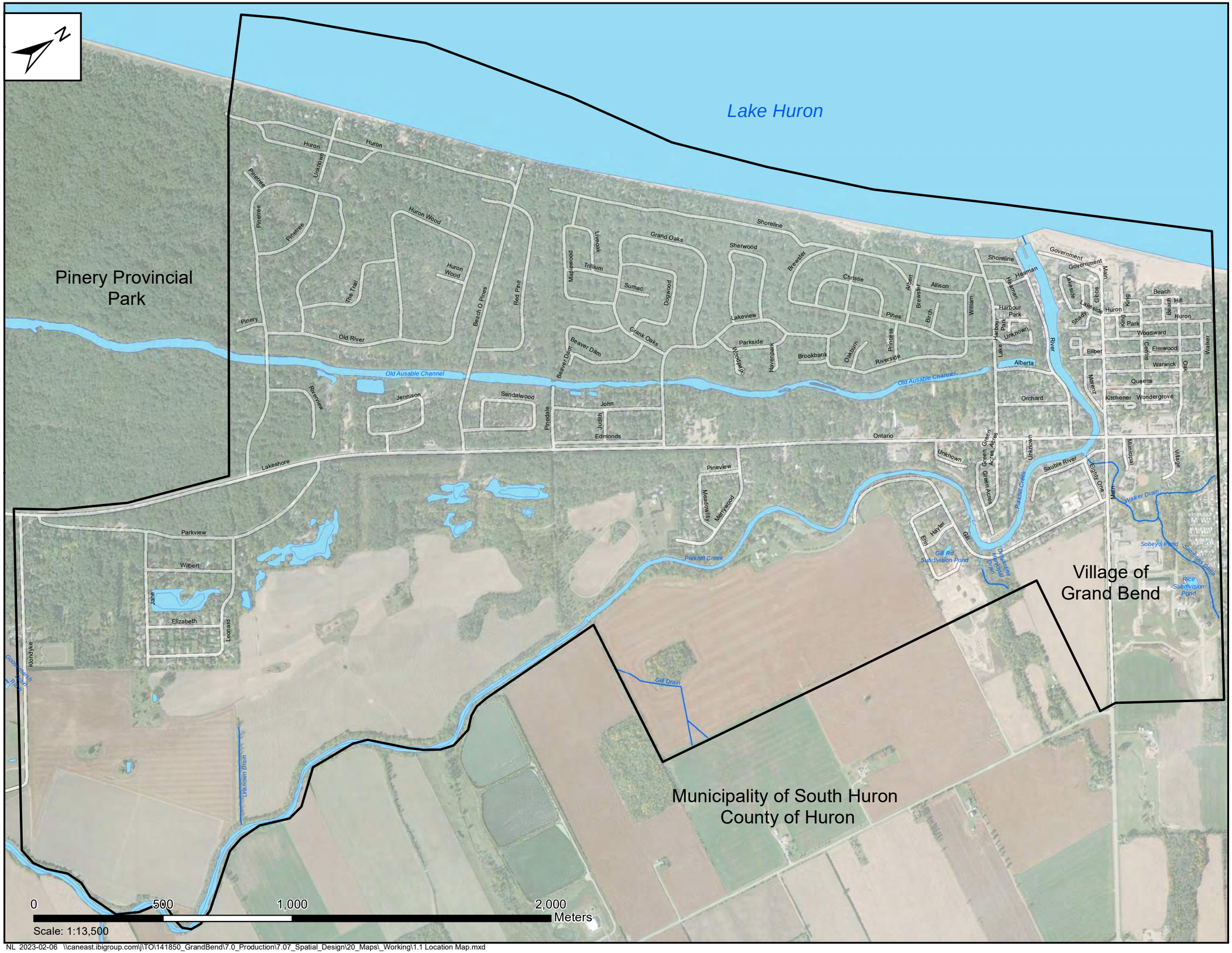
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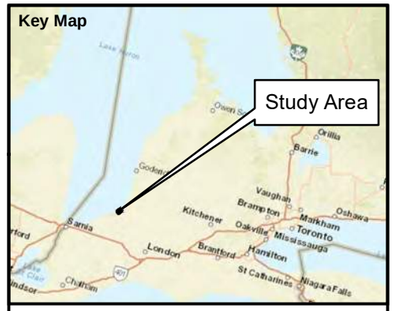
Roy Johnson B.ENG., P.ENG., MA.SC., Team Lead, Water Resources Engineering, tel +1 416 346-3875, roy.johnson@ibigroup.com

Public input and comment are invited, for incorporation into the planning and design of this project and will be received throughout the duration of the project. This information is being collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments received will become part of the public record and may be included in Study documentation prepared for public review. Thank you for your interest in this Study.

This Notice issued February 20, 2023.

Sam Shannon, Infrastructure Manager, Municipality of Lambton Shores.





Legend

Village of Grand Bend Municipal Boundaries

Figure 1.1
Grand Bend Location Map

Grand Bend Stormwater Management Master Plan

IBI GROUP

Project No.	Date:
141850	February 2023

NL 2023-02-06 \\caneast.ibigroup.com\j\TO\141850_GrandBend\7.0_Production\7.07_Spatial_Design\20_Maps_Working\1.1 Location Map.mxd

IBI GROUP
300 – 8133 Warden Avenue
Markham ON L6G 1B3 Canada
tel 905 763 2322
ibigroup.com

Municipality of Lambton Shores
Technical Memo #1 Meeting

Teleconference
2023-02-02 10:00 a.m.

Agenda

1. Technical Memorandum Draft
2. Data Gaps
3. Next Steps
4. Historical Issues

IBI GROUP
300 – 8133 Warden Avenue
Markham ON L6G 1B3 Canada
tel 905 763 2322
ibigroup.com

Municipality of Lambton Shores – Grand Bend SWMMP February Monthly Meeting

Teleconference
2023-02-22 10:00 a.m.

Agenda

1. Status Update
   First invoice pending – includes work on other phases, include report text
   NoSC – complete and sent out
   Problem Areas – received, will be reviewed
   TM1 – draft complete, final should be complete 02-22
   TM2 – working on text
   Survey quote – waiting on SUE
   CLI-ECA – will provide quote
2. Next Steps

Engineering Services Scope Change No. 1

ARCADIS
IBI GROUP

Project Name:	Project Number:	141850
20221 – Engineering Services – Grand Bend Stormwater Management Master Plan	Contract Number:	

Scope Change No.: 001

Description of Changes: Storm Sewer Survey/Inventory

We have attached Survey Assessment Map, Detailed Work Plan (below).

1. **Work Program**

The work program will be completed in two phases detailed in the sections below.

Phase 1

The intent of the Phase 1 work program is to collect missing information from key stormwater infrastructure (identified in attached figure). All information will be collected from the surface (no CSE) using electronic field forms and survey-grade GPS. The work program includes all travel and living, disbursements, permit applications, traffic management and paid-duty police as necessary to establish safe work zones for our teams while occupying the local roads;

Information collected in the field will include:

A. Missing Manholes Data

- Structure locations and surface elevations,
- pipe inverts, and pipe sizes
- Interior photograph of the targeted structures

B. Missing Catchbasin Data

- Structure locations and surface elevations,
- Identification of catchbasin type
- Overview photographs of the targeted structures

C. Preliminary Investigation on Main St. (east of Ontario St)

- Preliminary investigation to determine the existence and extent of stormwater infrastructure within the identified section of Main Street (east of Ontario St).

Phase 2

Based on the outcome of this investigation, a detailed Phase 2 workplan can be developed for the collection of missing data from manholes, catchbasins or other pertinent stormwater structures identified.

2. Deliverables

Our deliverables for Phase 1 of the investigation will include:

1. GIS Shapefile(.shp) of collected structure information
2. Excel Table (.xls) of structure information / measurements
3. Map (.pdf) summarizing inspection locations and results (ie, investigated, inaccessible, not found etc.).

3. Assumptions

For preparation of this proposal, the following list of assumptions and limitations were considered:

1. All targeted manholes, catchbasins and outfalls are easily accessible (for example but not limited to: easily accessed by foot, not buried or submerged, not frozen, no broken hinges, cracked covers, not bolted or other restricted access) and are visible to the bottom (i.e. no platforms, not filled with debris, water or silt);
2. Invert measurement accuracy may be compromised due to flow velocity in one or more pipes. If an invert cannot be properly physically measured, only the accessible portions of the pipe will be measured and the associated invert will be calculated;
3. Sewer measurements (physical tracing of sewers and/or laterals) are not required but adjacent structure connectivity will be confirmed by bang tests;
4. The entire field program will be completed during regular business hours, in snow free conditions;
5. No formal (text) report is required;

4. Fees and Schedule

The anticipated timeline for project commencement is March 2023, weather permitting.

Origin of Change		Requested By
Meeting	x	To address missing assets data
Letter		
Telephone		
Other (Email)		

Disciplines Affected		Project Schedule Impact	YES[1]	NO
Stormwater	Yes	Design		No
Architectural	No	Contract Administration		No
Structural	No	Engineering Cost Impact		
Process Mechanical	No	Field Investigation Services		
Building Services	No	Detailed Design		
Electrical/I&C/SCADA	No	Contract Administration		
Sub-Consultant(s)	No	Total Additional Fees (excl. Tax)	$18,500.00	
Proposal Submitted by Arcadis IBI Group _____ Roy Johnson, P.Eng. Project Manager Date: March 10, 2023		APPROVED/NOT APPROVED (Please circle) _____ Sam Shannon, C.E.T. Infrastructure Manager Municipality of Lambton Shores Date:		
Distribution: Jahangir Qureshi – Arcadis IBI Group				

[1] If Yes, provide updated project schedule

Engineering Services Scope Change No. 1

ARCADIS
IBI GROUP

Project Name:	Project Number:	141850
20221 – Engineering Services – Grand Bend Stormwater Management Master Plan	Contract Number:	

Scope Change No.: 001

Description of Changes: Storm Sewer Survey/Inventory

We have attached Survey Assessment Map, Detailed Work Plan (below).

1. **Work Program**

The work program will be completed in two phases detailed in the sections below.

Phase 1

The intent of the Phase 1 work program is to collect missing information from key stormwater infrastructure (identified in attached figure). All information will be collected from the surface (no CSE) using electronic field forms and survey-grade GPS. The work program includes all travel and living, disbursements, permit applications, traffic management and paid-duty police as necessary to establish safe work zones for our teams while occupying the local roads;

Information collected in the field will include:

A. Missing Manholes Data

- Structure locations and surface elevations,
- pipe inverts, and pipe sizes
- Interior photograph of the targeted structures

B. Missing Catchbasin Data

- Structure locations and surface elevations,
- Identification of catchbasin type
- Overview photographs of the targeted structures

C. Preliminary Investigation on Main St. (east of Ontario St)

- Preliminary investigation to determine the existence and extent of stormwater infrastructure within the identified section of Main Street (east of Ontario St).

Phase 2

Based on the outcome of this investigation, a detailed Phase 2 workplan can be developed for the collection of missing data from manholes, catchbasins or other pertinent stormwater structures identified.

2. Deliverables

Our deliverables for Phase 1 of the investigation will include:

1. GIS Shapefile(.shp) of collected structure information
2. Excel Table (.xls) of structure information / measurements
3. Map (.pdf) summarizing inspection locations and results (ie, investigated, inaccessible, not found etc.).

3. Assumptions

For preparation of this proposal, the following list of assumptions and limitations were considered:

1. All targeted manholes, catchbasins and outfalls are easily accessible (for example but not limited to: easily accessed by foot, not buried or submerged, not frozen, no broken hinges, cracked covers, not bolted or other restricted access) and are visible to the bottom (i.e. no platforms, not filled with debris, water or silt);
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4. Fees and Schedule

The anticipated timeline for project commencement is March 2023, weather permitting.

Origin of Change		Requested By
Meeting	x	To address missing assets data
Letter		
Telephone		
Other (Email)		

Disciplines Affected		Project Schedule Impact	YES[1]	NO
Stormwater	Yes	Design		No
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Structural	No	Engineering Cost Impact		
Process Mechanical	No	Field Investigation Services		
Building Services	No	Detailed Design		
Electrical/I&C/SCADA	No	Contract Administration		
Sub-Consultant(s)	No	Total Additional Fees (excl. Tax)	$18,500.00	
Proposal Submitted by Arcadis IBI Group _____ Roy Johnson, P.Eng. Project Manager Date: March 10, 2023		APPROVED/NOT APPROVED (Please circle) _____ Sam Shannon, C.E.T. Infrastructure Manager Municipality of Lambton Shores Date:		
Distribution: Jahangir Qureshi – Arcadis IBI Group				

[1] If Yes, provide updated project schedule

Johnson, Roy

From: Johnson, Roy
Sent: Friday, August 30, 2024 10:14 AM
Subject: Grand Bend Stormwater Management Master Plan (SWMMP) Notice of Master Plan
Attachments: 1.1 Grand Bend Location Map.pdf

RECOMMENDED MASTER PLAN

The Municipality of Lambton Shores has prepared a Master Plan for the Village of Grand Bend following Phases 1 and 2 of the Municipal Class Environmental Assessment process. The Study Area is as shown on the attached key plan.

The Master Plan identifies the recommended infrastructure to service the existing development areas as well as future growth of the Village while minimizing environmental impacts. The recommended Master Plan incorporates the comments received from the public and agencies during the Study. While the Master Plan addresses need and justification at a broad level, more detailed studies for each of the projects included in the Master Plan will be done later following the Municipal Class Environmental Assessment.

The Master Plan is available for review at the following location:

https://www.lambtonshores.ca/en/our-government/grand-bend-stormwater-management-masterplan.aspx

Please note, the structure of the Master Plan report consists of a summary of previously issued Technical Memoranda, with said Memoranda being included as Appendices to the report. All are available on the website.

Please forward any comments to the Study Contacts by 10-01-2024. Thereafter, the Master Plan will be reviewed and revised taking into consideration the comments that are received from the public. The recommended Master Plan has been presented to Council for approval.

Study Contacts

Lambton Shores
Sam Shannon
Infrastructure Manager
9577 Port Franks Road, Thedford, ON N0M 2N0
519-243-1400 ext. 8215
E-mail: sshannon@lambtonshores.ca

Arcadis
Roy Johnson, P. Eng.
Senior Project Manager – Water Resources
Roy.johnson@arcadis.com

This Notice is issued 2024-08-30.

Regards;

Roy Johnson (he/him/his) B.Eng., MA.Sc., P.Eng.
Senior Project Manager, Water Resources Engineering
Arcadis Professional Services (Canada) Inc.
roy.johnson@arcadis.com

www.arcadis.com





Notice of Study Completion
Class Environmental Assessment
Stormwater Management Master Plan (SWMMP)

The Municipality of Lambton Shores (Municipality) has completed a Stormwater Management (SWM) Master Plan (SWMMP) to establish a much-needed road map for the Municipality to advance the development of a comprehensive stormwater management strategy to address current and future needs within the Village of Grand Bend (Village).

The Master Plan has been completed with a level of detail sufficient to fulfil the requirements for projects classified as Schedule B in the Municipal Class Environmental Assessment; however more detailed studies for each of the projects in the Master Plan classified as Schedule C will be done later.

Based on the study findings and input from technical agencies and the public, the recommended Master Plan is as shown on the attached **Figures 5-1-a** and **5-1-b**. The Master Plan identifies the recommended infrastructure to service the future growth of the Town while minimizing environmental impacts. The recommended Master Plan incorporates the comments received from the public and agencies during the Study.

Comments are now closed.

For further information on the project, or on the planning process being followed consult

lambtonshores.ca/GrandBendSWMMP

or contact:

> Sam Shannon, Infrastructure Manager, 9575 Port Franks Road, Thedford, ON N0M 2N0, (P) 519-243-1400 Ext.8215, sshannon@lambtonshores.ca
>
> And/Or
>
> Roy Johnson B.ENG., P.ENG., MA.SC., Senior Project Manager - Water Resources, roy.johnson@arcadis.com

This Notice issued October 29, 2024.

Sam Shannon, Infrastructure Manager, Municipality of Lambton Shores.

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