

FLOODPLAIN DELINEATION AND CHANNEL REALIGNMENT DESIGN REPORT

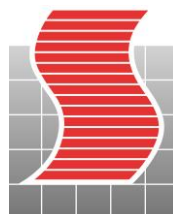
MOUNT HOPE WEST
RESIDENTIAL SUBDIVISION
UNITED HOLDINGS INC.

TOWN OF CALEDON

Project: 2024-5476

Feb 2026

Revision	Description	Prepared		Checked	
		By	Date	By	Date
0.0	Internal Draft	S. Saini	Nov 2024	S. Katukurunde	Dec 2024
1.0	Draft	S. Saini	Jun 2025	S. Katukurunde	Jun 2025
2.0	Final	S. Saini	Jun 2025	K. Shahbikian	Jun 2025
3.0	2 nd Submission	S. Saini	Feb 2026	S. Katukurunde	Feb 2026



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1.0 INTRODUCTION

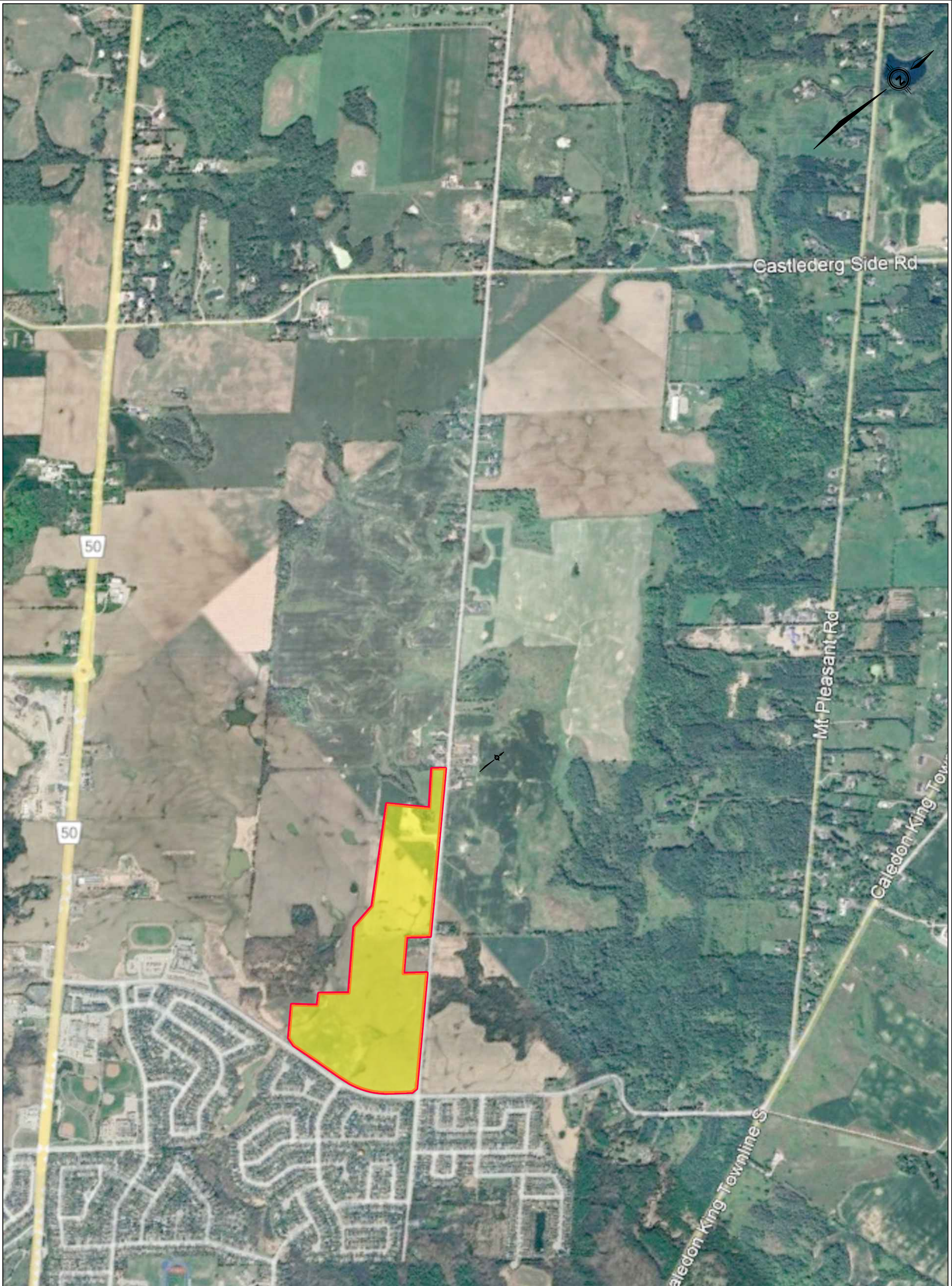
Schaeffers Consulting Engineers (SCE) is retained by United Holdings Inc. to support work related to a proposed residential subdivision located in the Town of Caledon and within the Toronto and Region Conservation Authority (TRCA's) jurisdiction. The objective of this report is to document the assessment of the floodplain and design of a channel for the approximately 32 ha property referred to as "Mount Hope West" ("the Subject Site"), located west of Mount Hope Road, North of Columbia Way. The property is legally defined as Albion Lot 12 Concession 7, Town of Caledon, Regional Municipality of Peel. **Figure 1.1** shows the Subject Site's location.

This document will summarize the methodology and results of the floodplain analysis for the Subject Site. The preliminary proposed channel realignment design to the south end of the site near Columbia Way is also documented within this report.

1.1 Reference Reports and Studies

The following studies were utilized in the preparation of this report.

- "Humber River Hydrology Update Final Report", by Civica, 2015.
- "Technical Guidelines for Flood Hazard Mapping", by Environmental Water Resources Group, 2017.
- "Functional Servicing and Stormwater Management Report, Mount Hope West", by Schaeffers Consulting Engineers, 2025.
- "Functional Servicing and Stormwater Management Report", by C.F. Crozier and Associates, 2024
- "Technical Guide - River and Stream Systems: Flooding Hazard Limit", by Ontario Ministry of Natural Resources (MNRF), 2002.
- "Technical Guide - River and Stream Systems: Erosion Hazard Limit", by Ontario Ministry of Natural Resources (MNRF), 2002.
- "Fluvial Geomorphology Assessment and Conceptual Natural Corridor Design" by GEO Morphix Ltd, 2025.
- "Fluvial Geomorphic Characterization of Cold Creek", by GEI Consultants, 2025.
- "Fluvial Geomorphic Assessment of a Humber River Tributary", by GEI consultants, 2023.



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LEGEND


 SUBJECT AREA

FIGURE 1.1
 LOCATION PLAN

2024-5476

FEBRUARY 2026

SCALE: N.T.S.

2.0 PROJECT SETTING

The following sections defines the study area, available topographic information used for the study, existing site conditions, and proposed site conditions.

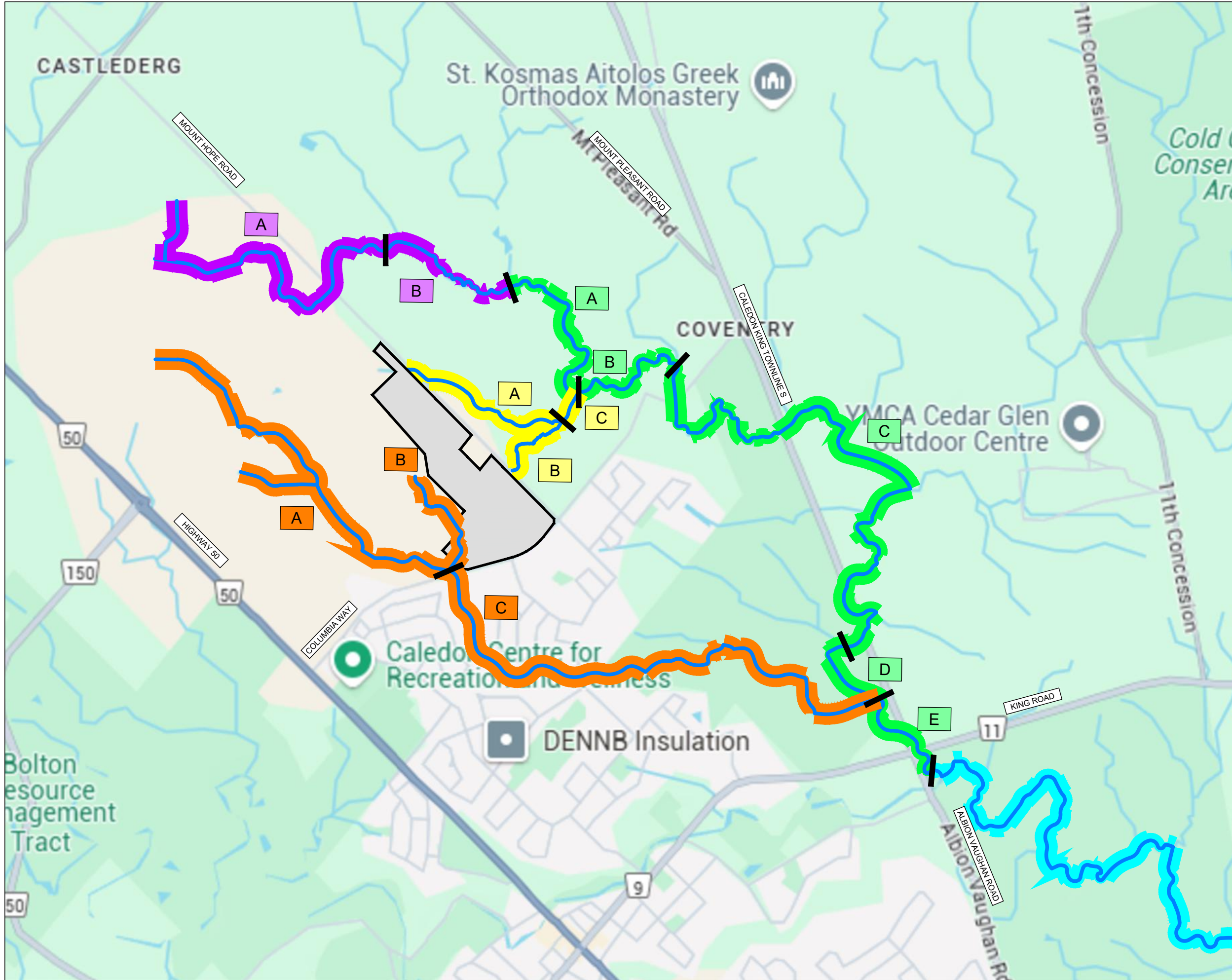
2.1 Study Area

The current land use pattern within the Study Area and Subject Site is agricultural. There are existing private properties located toward the northeast of the Project Site. The northeast corner of the Project Site also contains an existing wetland feature. Greenbelt area is located past the west side of the Site. The proposed development covers approximately 32 ha. The draft plan of subdivision, prepared by SGL Planning and Design Inc. and dated May 16, 2025, is provided in **Appendix A** for reference.


The Subject Site is located within the Main Humber subwatershed of the Humber River watershed. The topography reveals that the site drains mostly towards the east roadside ditches then through tributaries leading to Cold Creek West and ultimately to the Main Humber River. A portion of the existing lands drains southwest towards Columbia Way. There are no drainage features further upstream from the Subject Site as the catchments of interest comprise of the headwater lands for the tributaries draining into Cold Creek West. **Appendix C** presents the catchment delineation used for the hydrological assessment.

A nearby Landowner's group, Bolton North Hill Landowner's Group (BNHG) has a proposed draft plan of subdivision for their lands. A portion of the BNHG lands exist within catchments also impacted by the Mount Hope West Subject Site. Thus, the BNHG lands are included within the assessment. **Appendix C** presents the catchment delineation used for the hydrological assessment.

A Study Area is established for the purpose of defining the extent of the study for the floodplain assessment. The Study Area extends from the Project Site until where the Humber River crosses Caledon King Townline South and King Street East. The Study Area covers approximately 750 ha of drainage area and over 10 km of river length. The study area includes a historical watercourse located to the south west of the site that drains to a tributary of the Main Humber River. A section of this watercourse will be realigned under proposed conditions (referred to as Reach B of Main Humber Tributary A). **Figure 2.1** shows the extents of the Study Area as well as labelled reaches of the involved waterways.



LEGEND

-  SUBJECT SITE
-  REACH OF INTEREST
-  MAIN HUMBER TRIBUTARY A
-  COLD CREEK WEST
-  COLD CREEK WEST TRIBUTARY B
-  COLD CREEK WEST TRIBUTARY C
-  MAIN HUMBER RIVER
-  RIVER REACH ID

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FIGURE 2.1
STUDY EXTENTS & RIVER NAMES

2.2 Topographic Data

Reliable topographic data is necessary for understanding existing site drainage and for the establishment of new cross-sections for reaches not previously modeled by the TRCA in their existing hydraulic models. The topographic information retrieved is used for the delineation of flood lines. A topographic survey was carried out by R-PE Surveying Ltd. on November 27, 2023. The extents of the survey cover Project Site and are shown in a provided drawing found in **Appendix B**.

The remaining Study Area topographic information was gathered from available aerial topographic data (LiDAR) from First Base Solutions digital elevation models. The available detailed surveyed topographic data and LiDAR topographic data were used to produce a high-resolution Triangulated Irregular Network (TIN) for generating digital terrain layers. Digital terrain layers are converted to TIFF files for the purpose of modelling flood lines.

2.3 Existing Conditions

There are existing private properties located toward the northeast of the Project Site. The northeast corner of the Project Site also contains an existing wetland feature. Greenbelt area is located past the west side of the Site.

Table 2-1 provides a summary of all tributaries surrounding the Subject Site and considered in this study as shown in **Figure 2.1**. The Subject Site directs flows to the east into Cold Creek West Tributary B, and south into Main Humber Tributary A. The tributaries eventually connect with Cold Creek West, and ultimately to the Main Humber River.

Table 2-1: Study Area Rivers and Reaches of Interest

River	Reach	Description
Cold Creek West Tributary C	A	Headwater tributary located upstream of Cold Creek West
	B	Downstream reach that connects Cold Creek West Tributary C to the Cold Creek West
Cold Creek West Tributary B	A	Tributary located east of the Subject Site
	B	Tributary located east of the Subject Site and south of Reach A.
	C	Downstream reach that connects Cold Creek West Tributary B to the Cold Creek West
Cold Creek West	A	Reach between Cold Creek West Tributary C and Cold Creek

		West Tributary B.
	B	Reach length directly downstream of Cold Creek West Tributary B
	C	Reach of Cold Creek West south of Columbia Way
	D	Reach length that connects to the Main Humber Tributary A
Main Humber Tributary A	A	Main Humber Tributary A is located to the southwest of the Project Site and flows through existing subdivisions
Cold Creek West	E	Reach downstream of Main Humber Tributary A and upstream of the Main Humber River. This reach crosses King Street east
<p>Note:</p> <p>Under the proposed conditions, an existing gully that flows to Main Humber Tributary A will be realigned and upgraded into a functioning channel. Thus, in the proposed conditions, Main Humber Tributary A will be comprised of three reaches:</p> <ul style="list-style-type: none"> - Reach A for the Portion of the tributary upstream from where the realigned channel joins with the tributary near Columbia Way - Reach B for the realigned channel - Reach C for the remaining existing tributary length south of Columbia Way 		

A historical stream located to the south west of the site drains to a tributary of the Main Humber River. The fluvial geomorphological condition of the stream was assessed by GEI in 2023. A study was further completed by GEI in 2025, and confirmed by GEO Morphix (2025). The historical stream has undergone various naming convention changes due to the studies completed. It should be noted that the naming of the reach to be realigned (called HRT-2 by GEI in 2023) was named TCC(1)-2 by GEI (2025) and THRE-1-1 by GEO Morphix (2025). All names describe the same reach. The portion of the historical channel to be restored is contained within Reach B of Main Humber Tributary A and is identified in **Figure 2.2**.



Figure 2.2 Reach Proposed for Realignment (THRE-1-1) (GEO Morphix 2025)

The reach of interest was identified as having a historical meander belt width of 18 m (GEI 2023). GEI completed a historical review of the reach which indicated that since 2011, there is a noticeable decline

in bed and bank definition of the reach of interest due to agricultural works. The impacts of agricultural works reduced the ability of the watercourse to convey flows, leading to ponding (GEI 2023). A field investigation of this reach could not be completed as the surrounding field had been tilled over by agricultural works.

Additionally, an existing flood vulnerable area (FVA) exists where the Main Humber Tributary A confluences with the Cold Creek West. Existing structures of the Bolton Camp are found within the limits of the regulatory flood line. The existing FVA is identified in **Figure 2.3**.



Figure 2.3 Identified Flood Vulnerable Area Downstream of the Subject Site

2.4 Post Development Conditions

Under post-development conditions, the Project Site will be developed in accordance with the draft plan of subdivision, prepared by SGL Planning and Design Inc. and dated May 16, 2025 (provided in **Appendix A**). The subject site has a total area of nearly 32 ha. The proposed land use will consist primarily of residential lands. There is also a proposed park block, located in the center-east section and a commercial block located in the south section of the development area.

The land will be re-graded to capture and convey surface runoff towards the proposed stormwater management ponds. Regrading the land will alter the existing drainage areas contributing to the tributaries exiting the site. A portion of surface flow will also be directed to existing wetlands. An existing culvert crossing is proposed to be upgraded to a pipe to allow passage of an existing stream crossing along Mt Hope Road. The existing culvert results in excess ponding along the roadside ditch.

The historical stream identified by GEI and GEO Morphix, is proposed for realignment. Realignment of the watercourse would restore the bed and bank definition of the channel as well as restore flow passage. The identified meander belt width of this reach (18 m) will be maintained through the designed channel valley. Wetland pockets will be included in the channel design to provide additional habitat and serve as compensation efforts. The *Local Subwatershed Study Report* for Mount Hope West further details the natural heritage context of the Project Site (SCE et. al. 2025). Additionally, GEO Morphix has provided a detailed conceptual channel design and drawings, captured in the *Fluvial Geomorphology Assessment and Conceptual Natural Corridor Design* report (2025).

2.5 BNHG Post Development Conditions

It is necessary to consider other future proposed developments that affect the Subject Site's external catchment areas to appropriately determine the impacts for a complete downstream assessment. A nearby Landowner's group, Bolton North Hill Landowner's Group (BNHG) has a proposed draft plan of subdivision for their lands. The *Functional Servicing and Stormwater Management Report* prepared by Crozier (February 2025) identifies the proposed conditions of their lands. Nearly 50 ha of land to be developed lies within the catchments of study for the Mount Hope West Project. As such, these lands have been included into this assessment.

3.0 METHODOLOGY

This section describes the methodology undertaken to execute the floodplain assessment and preliminary channel design.

3.1 Hydrologic Modelling

The hydrologic assessment is performed by first acquiring existing TRCA VO hydrology models. The hydrology model is established in Visual OTTHYMO 6.2 (VO) software. For the hydrological assessment work, two models were acquired from the TRCA, prepared by Civica Infrastructure Inc., named as:

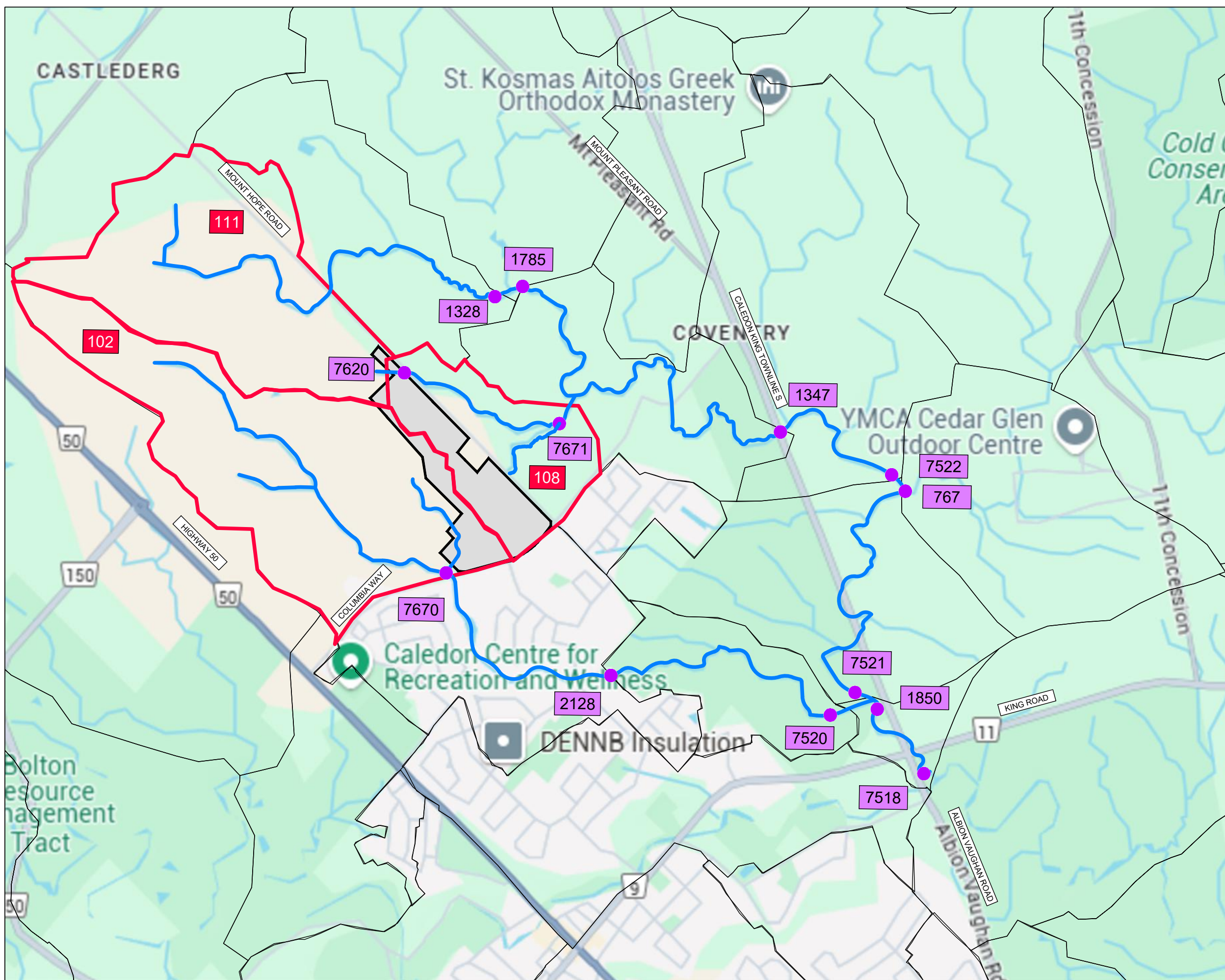
1. Humber – Large Storms – no ponds (2017) – this VO model is used as the basis for the Regional Storm assessment, using CNIII values. This model represents the future, uncontrolled conditions. Within this model, a scenario for the 350- and 500-year storms using CNII is available. This scenario has been used to model the 100-year storm scenarios as it represents future uncontrolled conditions.
2. Design Storm Scenarios (2015) – this VO model is used as the basis for assessments of storms of with 2- up to 100-year return periods. This model uses existing, controlled conditions.

At present, the TRCA is unable to provide a hydrology model for the future, uncontrolled conditions for the 100-year storm as this model is under development. Thus, the *Large Storms* model scenario for the 350– to 500-year storms has been used to model the 100-year storm. The scenario is established with future land use conditions and uncontrolled flows. This makes it appropriate for use to delineate the 100-year flood line.

The Subject Site is located within two existing catchments that serve as the headwaters of two tributaries, one drains to the east across Mount Hope Road, and one draining south across Columbia Way. **Figure 3.1** shows the extents of the downstream analysis including reach and tributary names.

The TRCA VO models have been updated to reflect pre-development and post development conditions considering the subject site. The resulting updated peak flows are then applied to the HEC-RAS model to complete the hydraulic assessment. **Figure 3.1** identifies key Nashyds and Addhyds from the VO model used throughout the assessment. As well, **Appendix B** shows the catchment area discretization through each of the modelled scenarios.

PHI Geotier
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- LEGEND**
- SUBJECT AREA
 - REACH OF INTEREST
 - TRCA VO MODEL CATHMENT NASHYD
 - TRCA VO MODEL CATHMENT NASHYD OF INTEREST
 - 111 TRCA VO MODEL CATHMENT NASHYD ID
 - ADDHYD NODE LOCATION
 - 789 ADDHYD NODE ID

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FIGURE 3.1
HYDROLOGICAL NODES

Three model scenarios established in VO are used to assess changes in peak flows from the proposed site as follows:

3.1.1 TRCA Model

The TRCA 's existing hydrology models are used as a starting point for this analysis. The TRCA Humber-Large Storms no ponds (future conditions, no ponds) model was used in modelling the Regional Storm. The TRCA Humber-Large Storms no ponds (future conditions, no ponds) 350– to 500-year model (CNII) was used for the 100-year floodplain assessment.

Three of the existing TRCA Nashyds are relevant to the Study Area and are updated in the later model scenarios as a result of the proposed Project Site footprint. **Table 3-1** describes the VO model elements of interest to the assessment.

Table 3-1: VO Model Element Description of Model Scenario 1 - TRCA Model

Element	Element Description	Changes Made
111	Nashyd representing a catchment area north of the site. This Nashyd contributes to Cold Creek West Tributary C.	None.
108	Nashyd representing the catchment area that contributes to two reaches feeding Cold Creek West Tributary B.	None.
102	Nashyd representing the catchment area that contributes to Main Humber Tributary A.	None.

3.1.2 SCE Modified Existing

SCE made updates to the existing TRCA Models to reflect existing site conditions. Existing drainage areas for the Nashyd encompassing the site area were corrected using available detailed site topography. Updating the baseline drainage areas would support more representative results of the Study Area peak flows. As well, identified subcatchments were discretized out from the existing TRCA Nashyds to establish the peak flows for reaches not previously modelled by the TRCA. This includes discretizing out the catchment for the channel realignment. **Table 3-2** describes the VO model elements of interest to the assessment.

Table 3-2: VO Model Element Description of Model Scenario 2 - SCE Modified Existing Model

Element	Element Description	Changes Made Relative to Scenario 1
111	Nashyd representing a catchment area north of the site. This Nashyd contributes to Cold Creek West Tributary C.	Catchment area updated upon inspection of detailed topographic information.
7622	Representing the upstream catchment of Reach A for Cold Creek West Tributary B.	Nashyd discretized from the original TRCA Nashyd 108.
7687	Representing the middle portion of the catchment of Reach A for Cold Creek West Tributary B.	Nashyd discretized from the original TRCA Nashyd 108.
7685	Representing the downstream catchment of Reach A for Cold Creek West Tributary B.	Nashyd discretized from the original TRCA Nashyd 108.
7680	Representing the catchment contributing to Reach B of Cold Creek West Tributary B.	Nashyd discretized from the original TRCA Nashyd 108.
7683	Representing the catchment downstream area contributing to Reach C of Cold Creek West Tributary B.	Nashyd discretized from the original TRCA Nashyd 108.
102	Nashyd representing the catchment area that contributes to Reach A of Main Humber Tributary A.	Catchment area updated upon inspection of detailed topographic information and discretization. Net addition of land previously included under VO Element 93.
7668	Representing the catchment contributing to Reach B of Main Humber Tributary A.	Nashyd discretized from the original TRCA Nashyd 102.

In order to maintain the calibration of the original TRCA model, time to peak (TP) values were maintained. See **Appendix D** for detailed calculations of these site-specific parameters, as well as for a summary table of inputs for the 2- to 100-year storm model. The SCE Modified Model Scenario is used as the baseline for the downstream assessment.

3.1.3 SCE Post Development

This version introduces the site land use changes into the hydrology model by converting site areas into Standhyds. Site stormwater ponds are not included in this model, representing uncontrolled conditions for the purpose of floodplain delineation. **Table 3-3** describes the VO model elements of interest to the assessment.

Table 3-3: VO Model Element Description of Model Scenario 3 - SCE Post Development Model

Element	Element Description	Changes Made Relative to Scenario 2
111	Nashyd representing a catchment area north of the site. This Nashyd contributes to Cold Creek West Tributary C.	Consistent with Scenario 2.
7622	Representing the upstream catchment of Reach A for Cold Creek West Tributary B.	Updated catchment size due to site footprint.
7674	Representing the north portion of the Project Site that flows uncontrolled through Reach A of Cold Creek West Tributary B.	Established Standhyd (urbanized).
7687	Representing the middle portion of the catchment of Reach A for Cold Creek West Tributary B.	Updated catchment size due to site footprint.
7685	Representing the downstream catchment of Reach A for Cold Creek West Tributary B.	Updated catchment size due to site footprint.
7680	Representing the catchment contributing to Reach B of Cold Creek West Tributary B.	Updated catchment size due to site footprint.
7667	Representing the east portion of the Project Site that discharges to Reach B of Cold Creek West Tributary B.	Established Standhyd (urbanized).
7683	Representing the catchment downstream area contributing to Reach C of Cold Creek West Tributary B.	Consistent with Scenario 2.
102	Nashyd representing the catchment area that contributes to Reach A of Main Humber Tributary A.	Updated catchment size due to site footprint.
7668	Representing the catchment contributing to Reach B of Main Humber Tributary A.	Updated catchment size due to site footprint.
7669	Representing the west portion of the Project Site that discharges to Reach B of Main Humber Tributary A.	Established Standhyd (urbanized).

The relevant Nashyd and Standhyd parameters are updated using site topographic data and the resulting catchment delineation. See **Appendix D** for detailed calculations of these site-specific parameters, as well as for a summary table of inputs for the 2– to 100-year storm model.

Table 3-4 summarizes the VO parameters of the site affected Nashyds and Standhyds between each model scenario of the Regional Model.

Table 3-4: Regional Hydrological Model Parameters by VO Element

Model Scenario	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Model Parameter	CN			IA			TP			XIMP			TIMP		
111	95	95	95	10	10	10	1.26	1.26	1.26	NA	NA	NA	NA	NA	NA
108	94	-	-	10	-	-	0.89	-	-	NA	-	-	NA	-	-
7622	-	94	94	-	10	10	-	0.89	0.89	-	0	0	-	NA	NA
7674	-	-	93	-	-	1.5	-	-	-	-	-	0.68	-	-	0.72
7687	-	94	94	-	10	10	-	0.89	0.89	-	0	0	-	NA	NA
7685	-	94	94	-	10	10	-	0.89	0.89	-	0	0	-	NA	NA
7680	-	94	94	-	10	10	-	0.89	0.89	-	0	0	-	NA	NA
7667	-	-	95	-	-	1.5	-	-	-	-	-	0.62	-	-	0.72
7683	-	94	94	-	10	10	-	0.89	0.89	-	0	0	-	NA	NA
102	95	95	95	10	10	10	2.1	2.1	2.1	NA	0	0	NA	NA	NA
7668	-	95	95	-	10	10	-	0.83	0.83	-	0	0	-	NA	NA
7669	-	-	95	-	-	1.5	-	-	-	-	-	0.78	-	-	0.85

Notes:

Model Scenario 1 – TRCA
 Model Scenario 2 – SCE Modified
 Model Scenario 3 – SCE Post Dev (uncontrolled)
 “-” – VO element not present in Model Scenario
 “NA” – Model parameter not applicable to VO element

The flows resulting from the VO hydrologic model are used as inputs for the hydraulic model and generate the existing conditions and post developed conditions floodplain.

3.1.4 BNHG Post Development

This version includes the proposed land developments by BNHG in conjunction to the changes already identified in the SCE Post Dev scenario. Site stormwater ponds are not included in this model, representing uncontrolled conditions. **Table 3-5** describes the VO model elements of interest to the assessment.

Table 3-5: VO Model Element Description of Model Scenario 4 – BNHG Post Development Model

Element	Element Description	Changes Made Relative to Scenario 3
111	Nashyd representing a catchment area north of the site. This Nashyd contributes to Cold Creek West Tributary C.	Consistent with Scenario 3.
7622	Representing the upstream catchment of Reach A for Cold Creek West Tributary B.	Consistent with Scenario 3.
7674	Representing the north portion of the Project Site that flows uncontrolled through Reach A of Cold Creek West Tributary B.	Consistent with Scenario 3.
7687	Representing the middle portion of the catchment of Reach A for Cold Creek West Tributary B.	Consistent with Scenario 3.
7685	Representing the downstream catchment of Reach A for Cold Creek West Tributary B.	Consistent with Scenario 3.
7680	Representing the catchment contributing to Reach B of Cold Creek West Tributary B.	Updated catchment size due to BNHG site footprint.
7667	Representing the east portion of the Project Site that discharges to Reach B of Cold Creek West Tributary B.	Consistent with Scenario 3.
7683	Representing the catchment downstream area contributing to Reach C of Cold Creek West Tributary B.	Updated catchment size due to BNHG site footprint.
7209	Representing a BNHG developed area that discharges to Reach C of Cold Creek West Tributary B.	BNHG Established Standhyd (urbanized).
102	Nashyd representing the catchment area that contributes to Reach A of Main Humber Tributary A.	Updated catchment size due to BNHG site footprint.
7694	Nashyd representing the catchment area that contributes to Reach A of Main Humber Tributary A.	Discretized out from 102 due to BNHG site footprint.
7205	Representing a BNHG developed area that discharges to Reach A of Main Humber Tributary A.	BNHG Established Standhyd (urbanized).
7208	Representing a BNHG developed area that discharges to Reach A of Main Humber Tributary A.	BNHG Established Standhyd (urbanized).
7668	Representing the catchment contributing to Reach B of Main Humber Tributary A.	Consistent with Scenario 3.
7669	Representing the west portion of the Project Site that discharges to Reach B of Main Humber Tributary A.	Consistent with Scenario 3.

The relevant Nashyd and Standhyd parameters are updated using site topographic data and the resulting catchment delineation. The parameters established for the urbanized proposed site areas including CN, IA, TIMP, and XIMP are taken from the FSSR report BNHG prepared by Crozier (February 2025). The model parameters used are summarized in **Table 3-6**.

Table 3-6: Hydrological Model Parameters by VO Element

Model Parameter	CN	IA	XIMP	TIMP
7209	96	5	0.50	0.59
7208	82	5	0.50	0.59
7205	82	5	0.49	0.57
Note: Parameters are taken from the BNHG <i>Functional Servicing and Stormwater Management Report</i> prepared by Crozier (February 2025). These parameters are applied for both the 100-year and Regional Storms.				

3.2 Hydraulic Modelling

3.2.1 TRCA Model Establishment

Hydraulic modelling is completed using the U.S. Army Corps of Engineers HEC-RAS 6.5 software in GEO-HECRAS version 5.0.0.1613. The TRCA provided their available existing watershed models relevant to the Study Area. Three of these models were used to combine into one to allow for the establishment of a single existing conditions model covering the related site area and downstream analysis length. The three TRCA models used were the *hum_77 Upper Humber model*, the *hum_25 Updated Humber River Revision 1 model*, and the *Hum_20X Upper Humber Zone 2 model*.

To verify the applicability of joining existing TRCA models, assurance checks were performed. These include comparing the resulting water surface elevations (WSEs) of each TRCA model to each other as well as to the combined model. Additionally, overlapping cross sections were verified to ensure similar hydraulic results were present. It is confirmed that the hydraulic results for both the 100 year and Regional Storm runs within the models showed similar results in their WSE. Therefore, the combined model is deemed acceptable for use as a basis for the remaining modelling.

In discussions with the TRCA, a portion of Reach A of Cold Creek West Tributary B, located west of Mount Hope Road, was removed from the HEC-RAS model. Through the hydraulic and hydrological assessment

process, it was noted that this land comprises the headwaters of the tributary with a contributing drainage area of approximately 7 ha. Therefore, it is not considered a floodplain area and is removed from the model.

3.2.2 Application of Flows

The steady flow data within the three existing TRCA HECRAS models for the 100-year storm were compared to the TRCA VO hydrology model. It was noted that some of the existing HEC-RAS models applied the 100-year 6-hour duration storm peak flows and others the 12-hour storm peak flows of the existing conditions *Design Storms* hydrology model. The selected storm duration for the 100-year storm will be the storm that results in more significant impacts to WSE.

The existing TRCA hydraulic model was updated with flows from the modelled scenario results from the hydrologic model. In correspondence with the TRCA, it was noted that certain flows in the HEC-RAS model were established through flow proration. Where proration was used to determine flows for the hydraulic model, the MTO Drainage Management Manual Transposition of Flood Discharges equation was used for flow proration (Chapter 8, 1997):

$$Q_2 = Q_1 \left(\frac{A_2}{A_1} \right)^{0.75}$$

Where:

- Q₂ is the unknown peak discharge
- Q₁ is the known peak discharge
- A₂ is the catchment area for the unknown peak discharge
- A₁ is the catchment area for the known peak discharge

For the application of the Regional Storm, storm areal reduction factors are necessary for selecting the correct hazel storm distribution based on the catchment size. Areal reduction factors applied by the TRCA for each catchment are maintained as described in the TRCA Humber River Hydrology Update Report (2018).

A summary of the flow change locations within the HECRAS model and the corresponding VO node identity used to populate the hydraulic model flow data is provided in **Table 3-7**. The table also summarizes the Area Reduction Factor (ARF) applied for the Hazel storm and if flow proration was used to establish the flow for HEC-RAS.

Table 3-7: Summary of VO Elements to HEC-RAS Cross Sections by Model Scenario

River - Reach	Area Reduction Factor	VO Element	HECRAS Cross-Section ID		
			Model 1	Model 2	Model 3
Cold Creek West Tributary C - A	100	111 ¹	2317.44	2317.44	2317.44
Cold Creek West Tributary C - A	100	111	1324.43	1324.43	1324.43
Cold Creek West Tributary C - A	100	1328 ¹	621.5	621.5	621.5
Cold Creek West Tributary C - B	100	1328	779.11	779.11	779.11
Cold Creek West Tributary B - A	100	7686	-	981.64	981.64
Cold Creek West Tributary B - A	100	108	981.64	-	-
Cold Creek West Tributary B - A	100	7684	-	607.56	607.56
Cold Creek West Tributary B - B	100	7680	-	-	1000
Cold Creek West Tributary B - B	100	7682	-	1000	-
Cold Creek West Tributary B - C	100	7671	-	185.93	185.93
Cold Creek West - A	100	1785 ¹	1099.88	1099.88	1099.88
Cold Creek West - B	98.2	1347	4301.05	4301.05	4301.05
Cold Creek West - C	98.2	7522	3514.84	3514.84	3514.84
Cold Creek West - C	98.2	7522	1156.51	1156.51	1156.51
Cold Creek West - C	97.1	767	1098.91	1098.91	1098.91
Cold Creek West - D	97.1	7521	1756	1756	1756
Cold Creek West - D	97.1	7521	1502	1502	1502
Main Humber Tributary A - A	100	102 ¹	4822.04	4822.04	4822.04
Main Humber Tributary A - B	100	7668	-	946	946
Main Humber Tributary A - A	100	102	4121.04	-	-
Main Humber Tributary A – A	100	7670	-	4121.04	4121.04
Main Humber Tributary A – A ²	100	2128 ¹	3191.63	3191.63	3191.63
Main Humber Tributary A – A ²	100	2128 ¹	2802.56	2802.56	2802.56
Main Humber Tributary A – A ²	100	2128	2093.17	2093.17	2093.17
Main Humber Tributary A – A ²	100	7520	1801.09	1801.09	1801.09
Cold Creek West - E	97.1	1850	1402	1402	1402
Cold Creek West - E	97.1	7518	724	724	724

Note:
 Model Scenario 1 – TRCA;
 Model Scenario 2 – SCE Modified;
 Model Scenario 3 – SCE Post Dev (uncontrolled) (This is the same for Model Scenario 4, BNHG Post Dev)
 1 – indicates that the flow applied to the related HECRAS cross section is a prorated value from the VO element
 2 – indicates that due to later discretization under post-development scenarios, this reach is defined as reach C

3.2.3 Boundary Conditions

The TRCA *hum_25 Updated Humber River Revision 1 model* is the model where the downstream reaches used for the combined hydraulic model are taken. To establish the downstream boundary conditions for the combined hydraulic model, the water surface elevation (WSE) results from the TRCA *hum_25 Updated Humber River Revision 1 model* were used to set the downstream WSE for the ending reach. The downstream water surface elevations are provided in **Table 3-8**.

Table 3-8: HEC-RAS Downstream Boundary Conditions

Profile Type	Downstream Boundary Condition	Water Surface Elevation (m asl)
Regional	Water Surface Elev	196.13
100yr	Water Surface Elev	194.02
50yr	Water Surface Elev	193.92
25yr	Water Surface Elev	193.81
10yr	Water Surface Elev	193.64
5yr	Water Surface Elev	192.83
2yr	Water Surface Elev	192.57

The downstream boundary conditions WSE are set approximately 10 km downstream from the Subject Site area.

3.2.4 Manning's N

Manning's n values are applied across model cross sections based on land use type characteristics. The existing TRCA cross-sections were updated with Manning's n value of 0.08 across the overbank of channel cross-sections and with 0.035 across the active channel width between bank stations. These values were selected as standard Manning's n values for flow through a channel in naturalized conditions. This configuration for Manning's n was also applied to any new modelled reaches, such as Cold Creek West Tributary B - Reach B, and the realigned channel under the post-development model scenario. Cross-section Manning's n values from the original models were otherwise maintained throughout the HECRAS model.

3.2.5 Hydraulic Structures

Hydraulic structures were not updated or altered from the structures in the existing TRCA models. Due to the removal of a length of reach no longer considered a part of the floodplain, as mentioned in **Section 3.2.1**, the existing culvert data from the model has been removed. **Appendix H** includes the relevant TRCA culvert crossing sheets where they were available.

3.3 Channel Realignment

3.3.1 Hydrology methods

The hydrological environment of the channel is first established to determine the design consideration for the reach of interest. Based on existing topographic information, the drainage area for the tributary was delineated in AutoCAD. The drainage area of the channel realignment is labelled as 7668.

Using the delineated area, the necessary flows were determined based on Nashyd 7668 of the VO hydrology model. CN and IA values selected are consistent with those in use by the natural catchments in the TRCA original model as this area is discretized from the existing Nashyd 102. These parameters are summarized previously in **Table 3-4**. The TP value was calculated using the Uplands Method. See **Appendix D** for detailed summaries.

3.3.2 Design Methods

For the design of the channel, available background information had been reviewed to establish the baseline conditions of the channel. The fluvial geomorphology memo by GEI established these conditions, such as the meander belt width of 18 m. The document identifies that the reach is presently impacted by agricultural work at the site. Thus, the channel design aims to redirect the flow path around the proposed site plan infrastructure and to establish a functioning channel.

Using the determined hydrological flows, a low flow channel design is established through the proposed site grading. The designed valley bottom width is set to accommodate the meander belt width of the original channel to maintain its natural regime as an unconfined flow path.

In accordance with the MNRF's Erosion Hazard Limit's guidelines, setbacks are considered as a part of the design. The channel is originally identified as an unconfined reach with a meander belt. The new channel will serve to provide adequate valley width for meandering of the channel while still projecting the channel through the site grading.

Once the preliminary design cross sections of the channel are established, they are included in the Post Dev conditions HECRAS models. This is completed to ensure the containment of the 2-year flow through the low flow channel and the containment of the Regional Storm within the corridor. The final channel design is confirmed through iterations of this assessment.

3.3.3 Modelling Methods

Modelling the channel in the HECRAS proposed conditions model involves updating cross-section information, reach connection information, and designing the manning's n of the channel. Cross-sections are coded left to right looking downstream. Alignment of the cross-sections is considered perpendicular to the flow direction and is extended to contain the entire floodplain.

Overbank flow lengths were also determined considering Flow Mass centerlines. The downstream boundary condition for the channel is set through the establishment of a junction at the existing tributary confluence upstream of the culvert crossing at Columbia Way. The junction applies the energy equation to define the hydraulics at this location for the steady flow simulation.

4.0 RESULTS

4.1 Floodplain Assessment

4.1.1 Hydrologic Modelling

The hydrological VO model had been updated into three scenarios to compare the impacts of the site on the local hydrology. **Table 4-1** presents the updated drainage areas between each scenario. **Appendix C** presents the catchment discretization by model scenario.

Table 4-1: Catchment Areas by Model Scenario (ha)

Tributary	Node	Description	TRCA Model	SCE Modified Existing Model	SCE Post Dev Model	BNHG Post Dev Model
Cold Creek West Tributary C	111	Original TRCA Nashyd	116.21	110.28	110.28	110.28
	108	Original TRCA Nashyd	57.05	-	-	-
Cold Creek West Tributary B	7667	To be developed; Reach B	-	-	17.88	17.88
	7674	To be developed; Reach A	-	-	0.74	0.74
	7622	Catchment to Reach A	-	8.79	7.12	7.12
	7687	Catchment to Reach A	-	18.09	11.46	11.46
	7685	Catchment to Reach A	-	7.40	6.55	6.55
	7680	Catchment to Reach B	-	24.30	12.56	8.74
	7683	Catchment to Reach C	-	5.87	5.87	4.56
	7209	BNHG to be developed; to Reach C	-	-	-	5.13
Main Humber Tributary A	102	Original TRCA Nashyd; Reach A	150.31	114.20	113.44	50.39
	7694	BNHG discretized catchment to Reach A	-	-	-	18.33
	7208	BNHG to be developed; Reach A	-	-	-	17.48
	7205	BNHG to be developed; Reach A	-	-	-	27.24
	7668	Realigned Channel; Reach B	-	39.53	31.08	31.08
	7669	To be developed; Reach C	-	-	11.47	11.47
Total Sum of Areas (ha)			323.57	328.45	328.45	328.45
Note: An increase of 4.88 ha is noted between the TRCA model scenario and the SCE model scenarios. This is due to corrected catchment areas of the existing TRCA Nashyd catchments in VO. 4.88 ha were removed from the adjacent catchment (Nashyd 93). “-“ indicates the VO element is not present within the model						

Table 4-2 provides a summary of the resulting Regional flows that are used to input into the hydraulic model.

Table 4-2: Regional Peak Flow Summary for all Model Scenarios (m³/s)

Reach	Areal Reduction Factor	VO Element	Cross-Section	TRCA Model	SCE Existing	SCE Post Dev	BNHG Post Dev
Cold Creek West Tributary C							
A	100	111 ¹	2317.44	5.4	5.33	5.33	5.33
A	100	111	1324.43	9.01	8.55	8.55	8.55
A	100	1328 ¹	621.5	9.85	9.76	9.76	9.76
B	100	1328	779.11	15.99	15.5	15.5	15.5
Cold Creek West Tributary B							
A	100	7686	981.64	-	2.41	1.74	1.74
A	100	7684	607.56	-	3.08	2.33	2.33
B	100	7680/7682	1000	-	2.19	3.48	3.21
A/C	100	108/7671	185.93	5.13	5.79	5.88	6.12
Cold Creek West							
A	100	1785 ¹	1099.88	156.33	156.14	156.14	156.14
B	98.2	1347	4301.05	161.51	161.61	160.44	160.06
C	98.2	7522	3514.84	170.72	170.82	170.2	169.83
C	97.1	767	1098.91	282.6	282.72	281.64	281.36
D	97.1	7521	1756	287.13	287.01	286.52	286.26
Main Humber Tributary A							
A	100	102 ¹	4822.04	4.32	4.03	4.03	4.51
B	100	7668	946	-	3.67	2.89	2.89
A	100	102/7670	4121.04	8.91	10.10	10.22	12.95
A ²	100	2128 ¹	3191.63	16.15	16.99	17.62	20.72
A ²	100	2128 ¹	2802.56	19.44	20.45	21.21	24.95
A ²	100	2128	2093.17	22.47	23.87	24.91	29.32
A ²	100	7520	1801.09	24.72	26.09	26.91	30.81
Cold Creek West							
E	97.1	1850	1402	298.89	299.35	298.13	295.86
E	97.1	7518	724	299.43	299.39	298.01	295.83
Note: ¹ – indicates that the flow applied to the related HECRAS cross section is a prorated value from the VO element ² – due to later discretization under post-development scenarios, this reach is defined as reach C “-” - indicates that a flow is not available as the associated VO element does not exist within the Model Scenario.							

Table 4-3 summarizes flows for the 100 year 6-hour storm peak flows between the model scenarios.

Table 4-3: 100 Year 6-hour AES Storm Peak Flows by Model Scenario (m³/s)

Reach	Areal Reduction Factor	VO Element	Cross-Section	TRCA Model	SCE Existing	SCE Post Dev	BNHG Post Dev
Cold Creek West Tributary C							
A	100	111 ¹	2317.44	1.99	1.97	1.97	1.97
A	100	111	1324.43	3.32	3.15	3.15	3.15
A	100	1328 ¹	621.5	3.43	3.40	3.40	3.40
B	100	1328	779.11	5.57	5.41	5.41	5.41
Cold Creek West Tributary B							
A	100	7686	981.64	-	0.97	0.69	0.69
A	100	7684	607.56	-	1.24	0.93	0.93
B	100	7680/7682	1000	-	0.88	3.42	3.35
C	100	108/7671	185.93	2.00	2.33	4.10	4.99
Cold Creek West							
A	100	1785 ¹	1099.88	30.45	30.34	30.34	30.34
B	98.2	1347	4301.05	31.99	32.06	31.65	31.56
C	98.2	7522	3514.84	34.45	34.52	34.17	34.09
C	97.1	767	1098.91	57.20	57.27	56.89	56.80
D	97.1	7521	1756	58.20	58.26	57.95	57.87
Main Humber Tributary A							
A	100	102 ¹	4822.04	1.35	1.26	1.26	4.26
B	100	7668	946	-	1.56	1.23	1.23
A	100	102/7670	4121.04	2.78	3.42	3.42	10.17
A ²	100	2128 ¹	3191.63	14.36	14.66	16.03	20.78
A ²	100	2128 ¹	2802.56	17.28	17.65	19.29	25.02
A ²	100	2128	2093.17	19.98	20.60	22.67	29.41
A ²	100	7520	1801.09	14.97	15.44	16.97	21.91
Cold Creek West							
E	97.1	1850	1402	61.69	61.80	61.36	60.65
E	97.1	7518	724	61.68	61.76	61.32	60.65
Note: ¹ – the flow applied to the related HECRAS cross section is a prorated value from the VO element ² – due to later discretization under post-development scenarios, this reach is defined as reach C							

The peak flows of the 12-hour storm were compared to the 6-hour storm results. In general, the 6-hour storm led to greater peak flows within the smaller tributaries of the model. The larger rivers had higher peak flows under the 12-hour storm. It was also noted that the TRCA HEC-RAS model that covered the downstream reaches of the model area (*hum_25 Updated Humber River Revision 1 model*) utilized the 100-year 6-hour storm peak flows. To provide consistent results, the 6-hour storm duration was applied for the 100-year storm. The 100 – year storm 6-hour storm duration was used for delineating the 100-year storm flood line. The 12-hour 100-year storm results are provided in **Appendix E**.

4.1.2 Hydraulic Modelling Results

The resulting peak flows of model scenarios 2, 3, and 4 (SCE modified, SCE post-development scenarios, and BNHG post-development) are added to the steady flow data of the HEC-RAS Model. The result demonstrates impacts to water surface elevation (WSE) throughout the downstream reaches. The results of the hydraulic analysis are summarized in this section.

Appendix E provides the detailed assessment table for the WSE results of each of the model scenarios. The results of the WSE comparison between the Regional and 100-year Storm Scenarios show that the Regional Storm governs for all reaches of both the SCE Modified Scenario and the SCE Post Development Scenario. The Regional Storm governs for most of the reaches and cross-sections under the BNHG Post Development scenario; however, a few cross sections have the 100-year storm at a slightly higher WSE than the Regional. The difference in WSE between the 100-year and the Regional Storm in these areas is 0.01 – 0.02 m which is relatively insignificant. The Regional Storm is deemed the regulatory event for this study area.

To provide a summary of the observed impacts to the WSE based on the proposed development conditions, **Table 4-4** summarizes the difference in WSE between the SCE Post Development scenario against the SCE Modified Existing model.

Table 4-4: Summary of WSE Impacts between SCE Modified and SCE Post Development Scenario (Regional)

River	Reach	WSE Impacts	Comments
Cold Creek West Tributary C	A	No Impacts to WSE	No Impacts to flow from Project Site
	B	No Impacts to WSE	No Impacts to flow from Project Site
Cold Creek West Tributary B	A	Reduction to WSE by 0.04 to 0.10 m	Peak Flow reduction due catchment size reduction
	B	Increase to WSE by 0.07 to 0.14 m	Peak Flow increase due to uncontrolled site flows and catchment size increase
	C	No Impacts to WSE	Minimal impact to flows from Project Site
Cold Creek West	A	No Impacts to WSE	Minimal impact to flows from Project Site
	B	No Impacts to WSE	Minimal impact to flows from Project Site
	C	No Impacts to WSE	Minimal impact to flows from Project Site
	D	No Impacts to WSE	Minimal impact to flows from Project Site
Main Humber Tributary A	A and C	Increases of 0.06 m to 0.27 m in some areas from Cross Section 3530.86 – 2156.52	Peak flows increase from uncontrolled site flow. WSE rises due to pre-existing culvert backwatering conditions. Flood is contained with freeboard within confined valley.
		Occasional increase of 0.03 m to 0.09 m from Cross Section 2093.17 to 847.18	Slight WSE increases through the reach upstream of the FVA
Cold Creek West	E	No Impacts to WSE	Minimal impact to flows from Project Site
<p>Note: WSE differences of less than 0.02 m are not considered significant. Under the proposed conditions, an existing gully that flows to Main Humber Tributary A will be realigned and upgraded into a functioning channel. Thus, in the proposed conditions, Main Humber Tributary A will be comprised of three reaches:</p> <ul style="list-style-type: none"> - Reach A for the Portion of the tributary upstream from where the realigned channel joins with the tributary near Columbia Way - Reach B for the realigned channel - Reach C for the remaining existing tributary length south of Columbia Way 			

The results of the hydraulic assessment show that impacts from the Mount Hope West Project Site are restricted to the tributaries to which they directly outflow. Impacts do not carry to the downstream reaches of the Cold Creek West. Impacts to Reach B of Cold Creek West Tributary B are noticeable. WSE increase by 0.07 m to 0.16 m but maintained confined to the existing channel corridor. As per the proposed Stormwater Management (SWM) plan, Regional controls are proposed for the East SWM pond, which shall mitigate these impacts (Schaeffers 2025).

The impacts to the Main Humber Tributary A are apparent as well. However, the presence of a confined valley system ensures that these impacts are minimal to the surrounding environment. Even while

considering the WSE increases from the modelled result, the channel still shows at least 1.5 m freeboard through the length of reach with impacts. Thus, Regional controls are not recommended for West SWM pond.

Table 4-5 summarizes observed impacts to the WSE at each study reach under the Regional Storm when the BNHG development condition is considered with the Mount Hope West Project Site.

Table 4-5: Summary of WSE Impacts between SCE Modified and BNHG Post Development Scenario (Regional)

River	Reach	WSE Impacts	Discussion
Cold Creek West Tributary C	A	No Impacts to WSE	No Impacts to flow from Project Site
	B	No Impacts to WSE	No Impacts to flow from Project Site
Cold Creek West Tributary B	A	Reduction to WSE by 0.04 to 0.10 m	Peak Flow reduction due catchment size reduction
	B	Increase to WSE by 0.05 to 0.13 m	Peak flow increases due to uncontrolled site flows from Mount Hope. Catchment size decrease from BNHG site footprint.
	C	Slight increase to WSE by 0.03 m at Cross Section 185.83 and 128.69	Peak flows slightly increase with addition of BNHG site footprint.
Cold Creek West	A	No Impacts to WSE	Minimal impact to flows from Project Site
	B	No Impacts to WSE	Minimal impact to flows from Project Site
	C	No Impacts to WSE	Minimal impact to flows from Project Site
	D	No Impacts to WSE	Minimal impact to flows from Project Site
Main Humber Tributary A	A and C	Increase of 0.03 m to 0.76 m in Reach A (4822.04 to 3188.65)	Increase from uncontrolled site flows (BNHG) and culvert backwatering.
		Increase of 0.07 m to 1.55 m from Cross Section 3123.12 to 2156.52	Increased WSE through confined channel of existing developed area. Flood is contained with freeboard within confined valley.
		Increase of 0.04 to 0.31 from Cross Section 2093.17 to 544.59	WSE increases through the reach upstream of the FVA
Cold Creek West	E	No Impacts to WSE	Minimal impact to Flows from Project Site
Note: Under the proposed conditions, an existing gully that flows to Main Humber Tributary A will be realigned and upgraded into a functioning channel. Thus, in the proposed conditions, Main Humber Tributary A will be comprised of three reaches: <ul style="list-style-type: none"> - Reach A for the Portion of the tributary upstream from where the realigned channel joins with the tributary near Columbia Way - Reach B for the realigned channel - Reach C for the remaining existing tributary length south of Columbia Way 			

Impacts to Reach B of Cold Creek West Tributary B are noticeable. WSE increase by 0.05 m to 0.13 m. These impacts are slightly less than when the BNHG lands are not considered in the post development model. This is due to a catchment size reduction from the presence of the BNHG site footprint.

The impacts to the Main Humber Tributary A are significant with flows from the BNHG lands. Previously when considering the impacts of Mount Hope West alone, impacts ranged from 0.06 m to 0.27m. With the BNHG future flows, the impacts to the Regional WSE range up to as high as 1.55 m.

The most significant WSE impacts occur through the portion of the reach that is within the existing urbanized lands. This is due to the culvert structures along the reach in this area that restrict flow passage, ultimately leading to backwater conditions. At the point of crossing with Columbia Way, the modelled WSE approaches the roadway elevation. The presence of a confined valley system downstream of the road ensures the impacts are minimal to the surrounding environment. The peak flows associated are contained within the confined valley with a freeboard of at least 0.6 m.

Appendix F provides the floodplain figures for both existing and proposed future conditions. The existing conditions figure is from the results of the SCE Modified Model (Model 2) and the proposed conditions is from the result of the BNHG Post Dev Model (Model 4).

Appendix G depicts a floodplain comparison figure. The existing (Model 2) and future proposed (Model 4) flood lines are plotted together in order to identify differences between the two scenarios. As shown, there are negligible impacts to the floodplain throughout the analysis area. A change is found along the proposed channel realignment, as this channel was not previously modeled by the TRCA.

4.2 Channel Realignment Design

4.2.1 Hydrology

Hydrological flows are established in order to create a preliminary channel design. The channel will be designed to convey the regulatory flow, which for this reach, is the Regional Storm. The determined VO model input parameters, as described in Section 3.3.1, were applied to the VO model. The catchment flows summary is presented in **Table 4-6**.

Table 4-6 Channel Realignment Design Flows

Design Storm	Peak Flow (m ³ /s)
2-year	0.30
5-year	0.48
100-year	1.23
Regional	2.89

4.2.2 Channel Design and Hydraulic Function

Based on the determined peak flows to be conveyed by the channel, an iterative approach used the HEC-RAS model was undertaken in order to determine a preliminary channel cross-section design. The final configuration is presented in **Table 4-7**.

Table 4-7: Channel Design Slopes

Design Parameter	Slope (m/m)	Slope (x:1)
Bank slope	0.29	3.4:1
2-Yr low flow bank slope	0.33	3:1
Channel bottom slope	0.02	50:1

Note that a channel bottom slope of 2% is established as per site grading and the straight slope between the upstream tie-in and the downstream tie-in. During the detailed design, input from geomorphology specialists will likely flatten the channel for the purpose of providing features such as step-pools and additional habitat. The final preliminary channel geometry is presented **Table 4-8**.

Table 4-8: Channel Geometry Summary

Low Flow		Main Channel	
Top Width (m)	Bottom width (m)	Top Width (m)	Bottom width (m)
2.03	0.70	23.09	19.03

An example cross-section is provided in **Figure 4.1**.

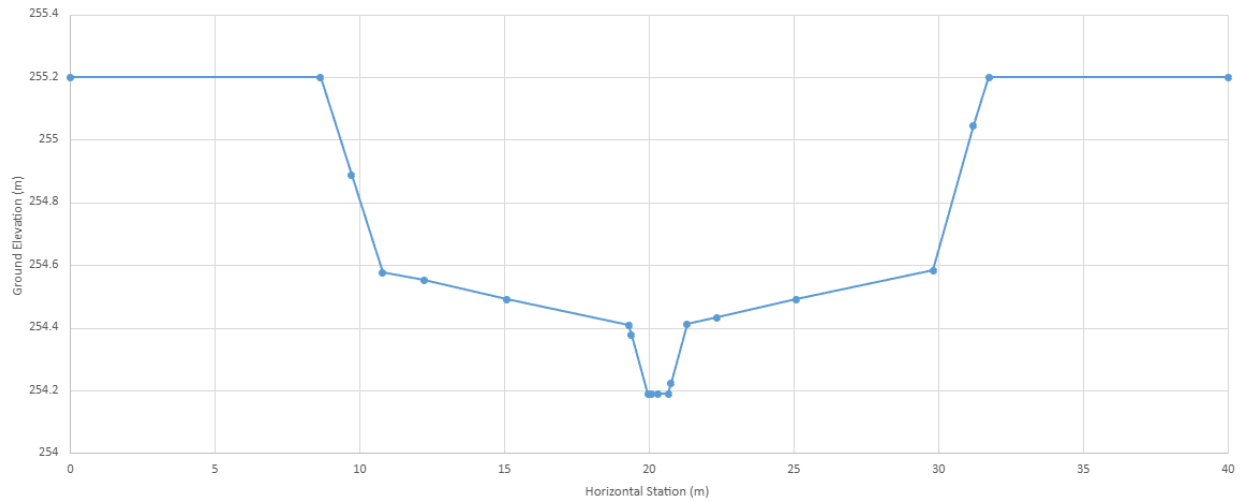


Figure 4.1 Example Cross-Section of the Preliminary Channel Design

A detailed design of the channel will be undertaken during the detailed design phase of the project. In conjunction with project geomorphologists, the detailed design will finalize the design of river features such as step pools, rock sizing, bank protection and other channel design considerations. This preliminary channel design confirms the hydraulic function of the channel for conveying 2 -year flows through the low flow channel, and conveying the Regional Storm within its corridor, with an adequate free board of 0.5 m.

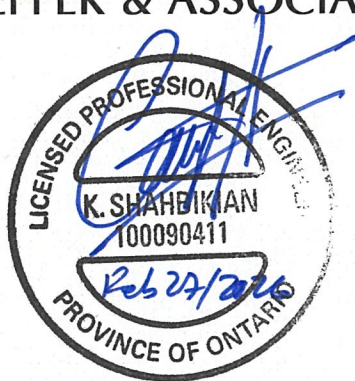
5.0 CONCLUSION

This Floodplain Delineation and Channel Realignment Design Report has been prepared to delineate the floodplain and assess the impact of development to the downstream channel systems. This report also summarizes the preliminary design and of the proposed channel realignment.

- Modifications were made to the TRCA *Large Storms* and *Design Storms* VO Model to capture the proposed development's impacts to hydrology within the Study Area
- The 100 year 6-hour storm is applied for determining the 100-year flood line.
- The Regional Storm is considered the Regulatory Storm.
- Floodplain impacts were assessed for the uncontrolled proposed conditions with the Subject Site development, and for the Subject Site with BNHG proposed developments. It is demonstrated that downstream areas are not negatively impacted. Any impacts to the WSE are largely contained within the channel corridor systems.
- The realigned channel successfully conveys frequent storms through its design low flow channel with an average 2-year flow.
- The realigned channel is designed to convey Regional Storm flows with a minimum 0.5 m free board.

We trust that you will find this material satisfactory, and we are looking forward to receiving your comments soon. Should you have any questions or comments, please do not hesitate to contact us.

SCHAEFFER & ASSOCIATES LTD.



Koryun Shahbikian, M. Eng., P.Eng., L.L.M.,
Partner

Sukhpreet Saini, B. A. Sc., E.I.T.
Water Resources Analyst

Appendix A

Draft Plan of Subdivision

DEVELOPMENT CONCEPT

UNITED HOLDINGS INC.

LEGEND

-  DRAFT PLAN BOUNDARY
-  9.8m SINGLE DETACHED
-  13.7m SEMI-DETACHED
-  6.1m STREET TOWNHOUSE
-  OTHER RESIDENTIAL
-  COMMERCIAL
-  PARK
-  STORM WATER MANAGEMENT
-  NATURAL HERITAGE SYSTEM
-  ROAD BUFFER
-  OPEN SPACE
-  SERVICING BLOCK
-  FUTURE DEVELOPMENT


UNIT STATISTICS

TYPE	LOTS/BLOCKS	UNITS
9.8m SINGLE DETACHED	100	100
13.7m SEMI-DETACHED	165	330
6.1m STR. TOWNHOUSE	29	171
OTHER RESIDENTIAL	TBD	TBD
TOTAL (NOT INCLUDING TBD OF 'OTHER RESID.')	294	601

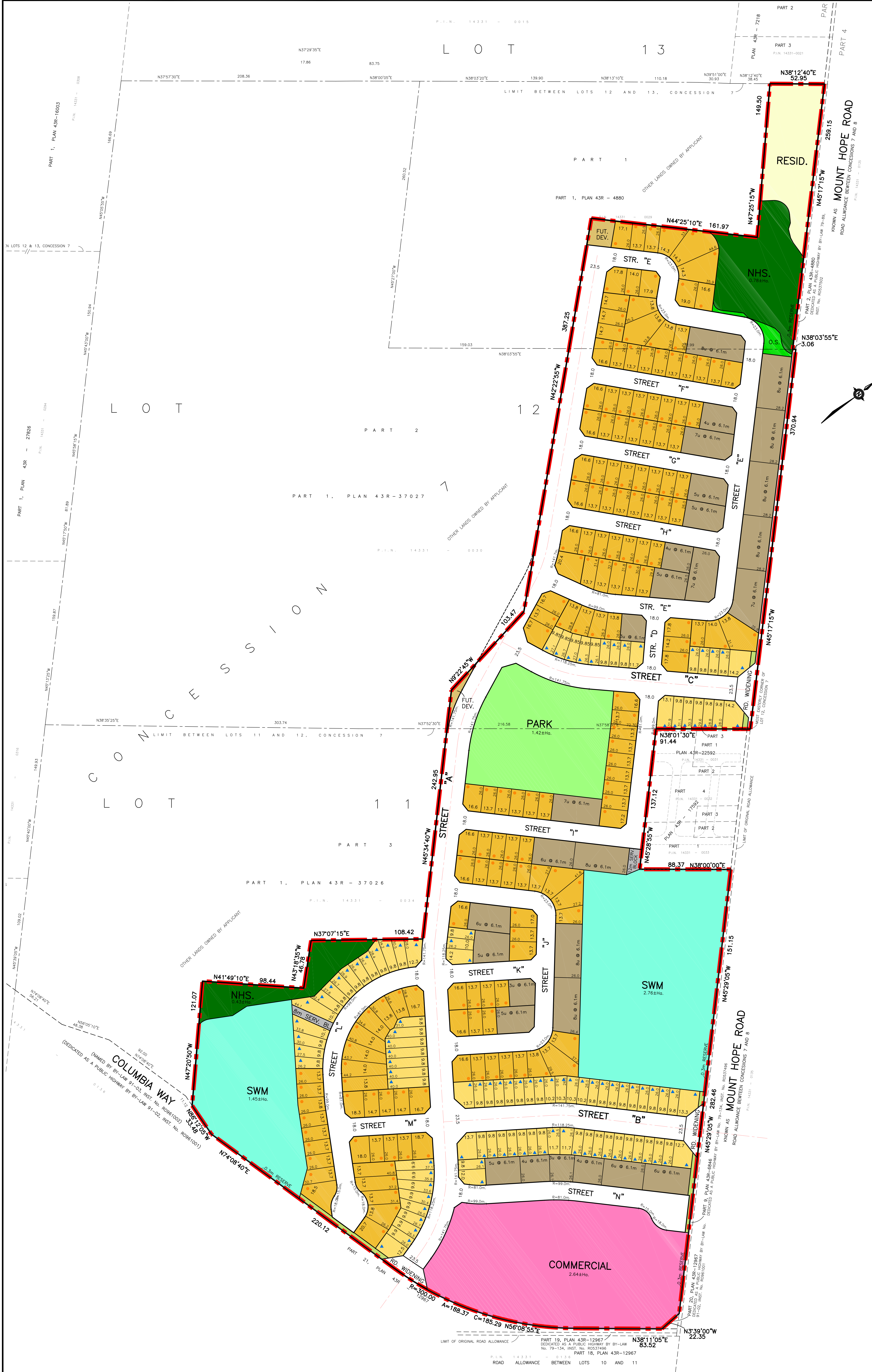
NOTE:

THIS DRAWING IS CONCEPTUAL AND PROVIDED FOR DISCUSSION PURPOSES ONLY.

BOUNDARY INFORMATION, ROAD ALIGNMENT, AND AREA/UNIT COUNT CALCULATIONS ARE SUBJECT TO CHANGE AND NEED TO BE VERIFIED.



PROJECT No. P-3638
SCALE 1:1500
JANUARY 14, 2026
3638DES17
 64 JARDIN DRIVE - UNIT 1B,
 CONCORD ONT. L4K 3P3
 TEL: (905)668-4055



Appendix B

Topographic Survey

SKETCH SHOWING ELEVATIONS FOR ENGINEER'S USE

SCALE 1:2000
 0m 20m 40m 80m 120m 160 metres
 R-PE SURVEYING LTD., O.L.S.
 METRIC

CAUTION

THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK.
 THIS SKETCH IS PROTECTED BY COPYRIGHT © R-PE SURVEYING LTD., O.L.S. 2023.

BENCHMARK NOTE

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO MTO VERTICAL BENCHMARK NUMBER 00819758061 HAVING AN ORTHOMETRIC ELEVATION OF 261.024 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928;1978).
 BENCHMARK SET IN THE LARGE CONCRETE CULVERT UNDER HWY 50, 6 KM NORTH OF JCT OF HWY 50 AND KING STREET IN THE TOWN OF CALEDON (BOLTON) AND 2.0 KM SOUTH OF ALBION SIDEROAD 20. TABLET IS SET VERTICALLY IN THE TOP OF CULVERT, 34 CM WEST OF THE EAST END, 44 CM SOUTH OF THE NORTH WALL AND 14 M EAST OF THE CENTRELINE OF HWY 50.

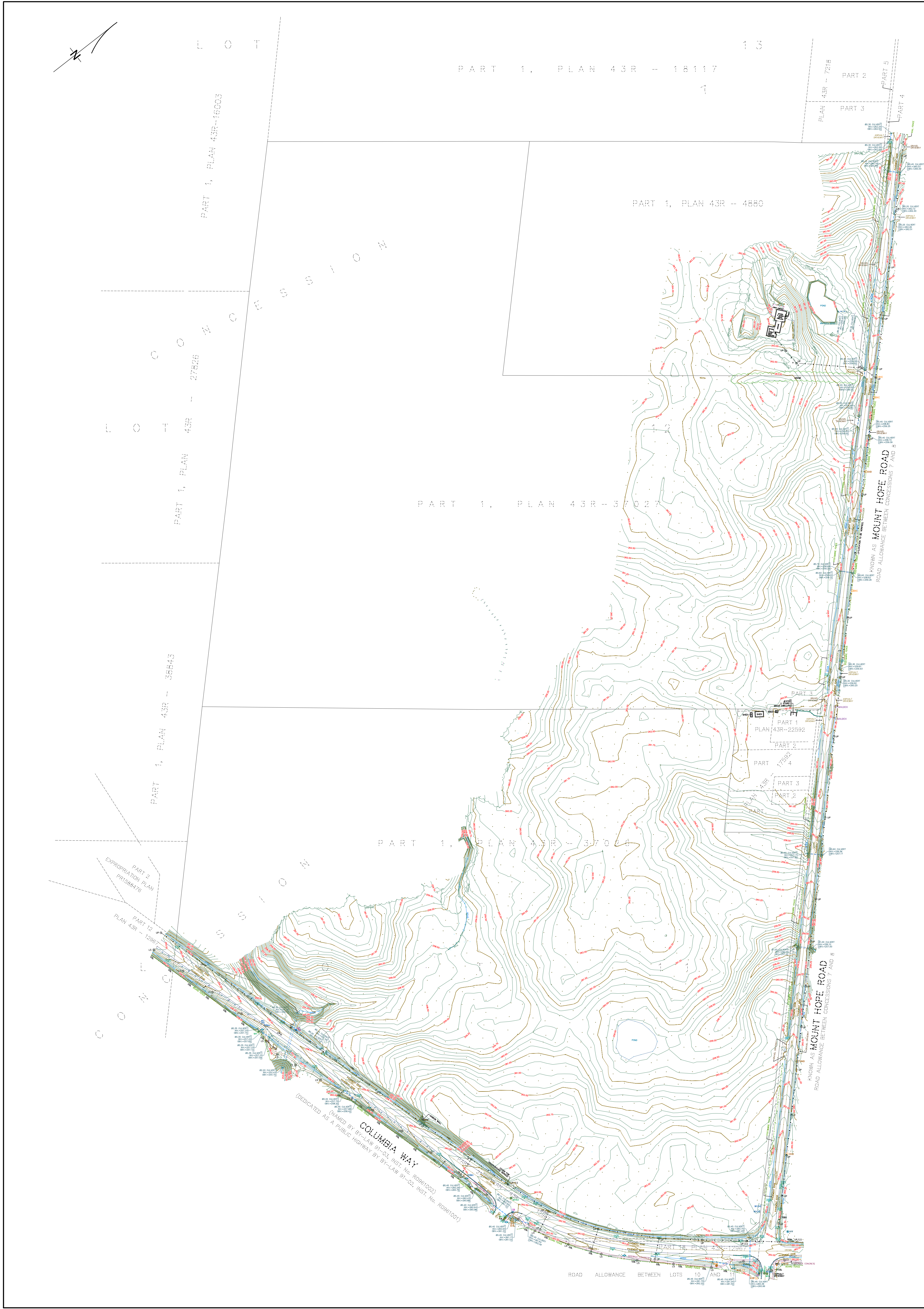
NOTES

BOUNDARY LINE—WORK TAKEN FROM R-PE CAD FILE NO. 21-177R01g.
 THE FIELD OBSERVATIONS REPRESENTED ON THIS PLAN WERE COMPLETED ON THE 27th DAY OF NOVEMBER, 2023

SKETCH IS AN ORIGINAL IF EMBOSSED BY THE SURVEYOR'S SEAL.

LEGEND

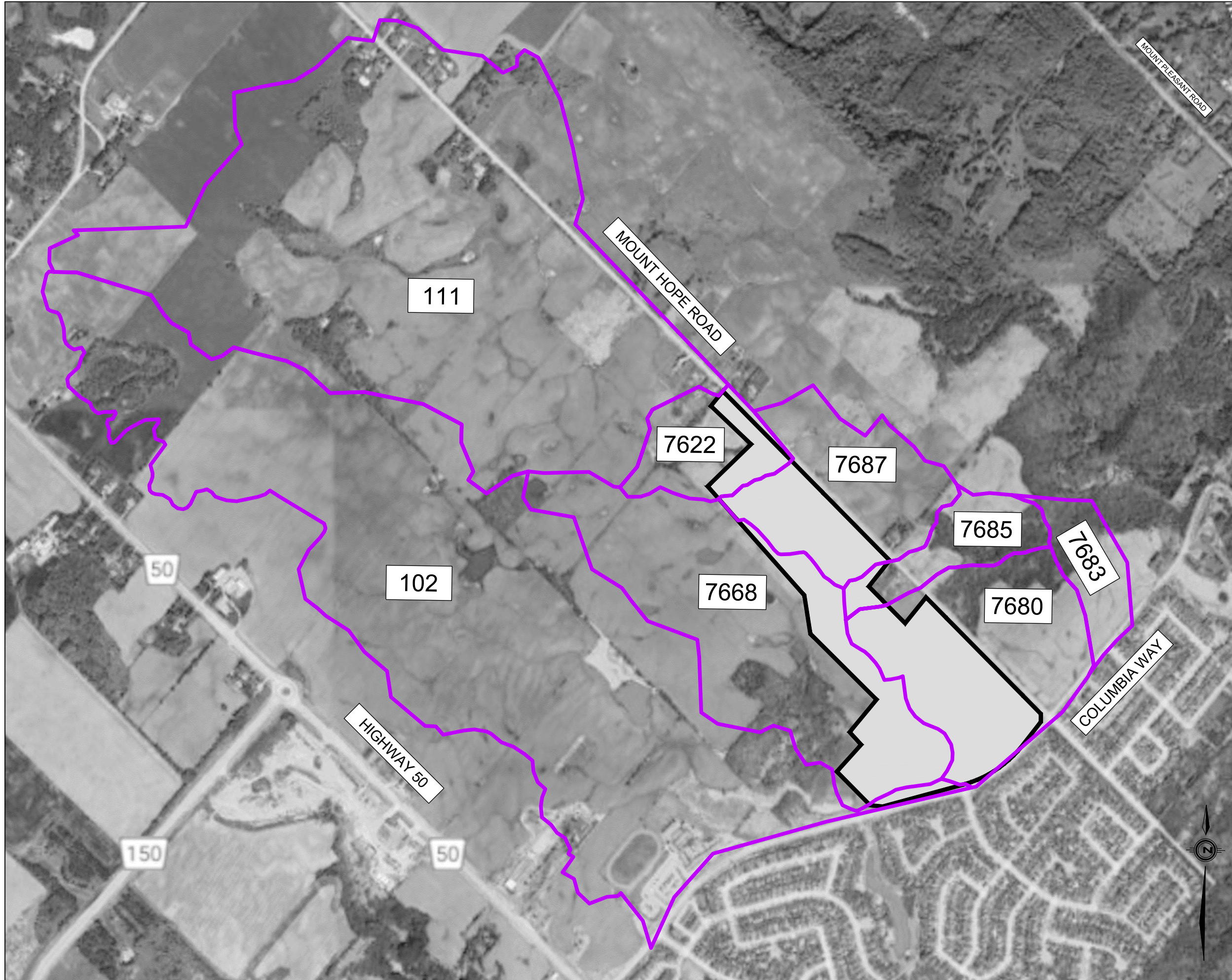
BXB	DENOTES BELL BOX
BXC	DENOTES COMMUNICATION BOX
CB	DENOTES CATCH BASIN
TEBX	DENOTES TEL BOX
COL	DENOTES COLUMN
INV.	DENOTES INVERT ELEVATION
OBV.	DENOTES OBVERT ELEVATION
-GR-	DENOTES GUIDE RAIL
-X-	DENOTES FENCE LINE
-W-	DENOTES OVERHEAD WIRE
HW	DENOTES HANDWELL
MH	DENOTES MANHOLE
MHB	DENOTES MANHOLE BELL
MHSA	DENOTES MANHOLE SANITARY
MHST	DENOTES MANHOLE STORM
MW	DENOTES MONITORING WELL
LS	DENOTES LAMP STANDARD
UP	DENOTES UTILITY POLE
UCB	DENOTES UNDERGROUND BELL
UGG	DENOTES UNDERGROUND GAS
WV	DENOTES WATER VALVE
GL	DENOTES GAS LOCATION MARKER
AWA	DENOTES GUY WIRE ANCHOR
FD	DENOTES FIRE HYDRANT
Ø	DENOTES CURB CUT
Ø	DENOTES DIAMETER



Appendix C



Catchment Discretization by Model Scenario

PHI Gotfried
W:\5400\5476\Drawings\Drainage\2025-05-28-5476-Drainage.dwg



RESIDENTIAL SUBDIVISION
UNITED HOLDINGS INC.
C/O SOLMAR DEVELOPMENT CORP.
TOWN OF CALEDON

LEGEND

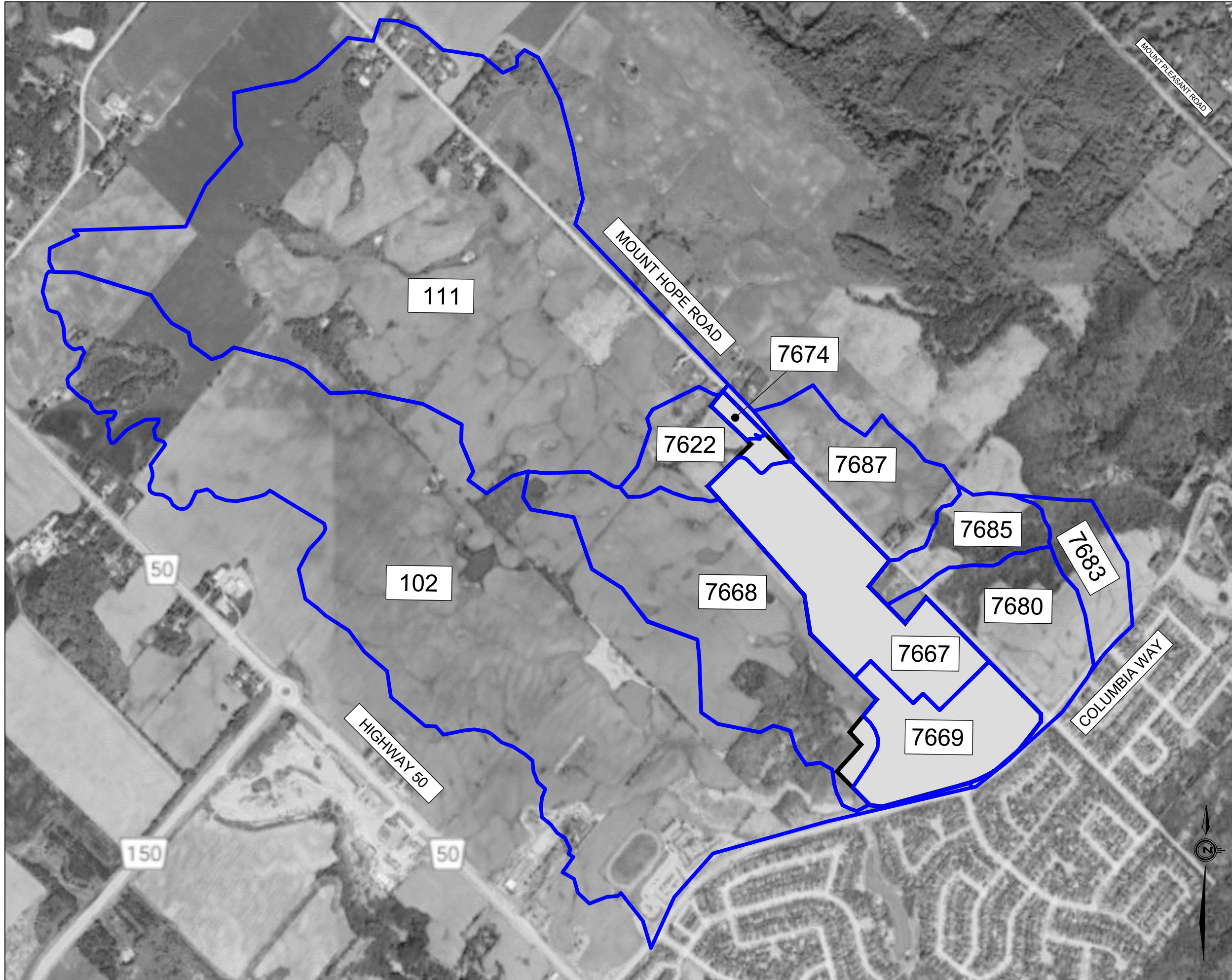
-  SUBJECT SITE
-  EXISTING DRAINAGE AREAS



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Tel: (905) 738-6100 Email: general@schaeffers.com
www.schaeffers.com


FIGURE C.1
EXISTING DRAINAGE AREAS


PHI Gottfried
W:\5400\5476\Drawings\Drawings\2025-05-28-5476-Drainage.dwg



RESIDENTIAL SUBDIVISION
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TOWN OF CALEDON

LEGEND

 SUBJECT SITE


 POST DRAINAGE AREAS

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FIGURE C.2
POST DEVELOPMENT DRAINAGE AREAS

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LEGEND

 SUBJECT SITE

 POST DRAINAGE AREAS




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FIGURE C.3
BOLTON NORTH HILL AND SCHAEFFERS
POST DEVELOPMENT DRAINAGE AREAS

Appendix D

Hydrology Model Parameter Calculations



**Mount Hope West
Time to Peak Calculation**

Catchment	Area	Watershed Slope, S _w	Watershed Slope, channel, S _{w,1}	Overland Flow Length, L	Overland Flow Length, L1	Velocity (Figure 1, VO Reference Guide)	Velocity (Figure 2, VO Reference Guide)	Runoff Coefficient, C	Time of Concentration (Upland)	Time to Peak (Upland)	Time to Peak, tp = 0.33tc (Upland)
	(ha)	(%)	(%)	(m)	(m)	(m/s)	(m/s)	-	minutes	minutes	(hrs)
Channel Realignment	39.53	0.2	0.8	1112.3	218.1	0.1	0.4	0.3	151.7	50.1	0.83

1. The Soil Group was based on the MTO Design Chart 1.08.
2. Watershed slope was calculated using the Equivalent Slope Method (Ministry of Transportation).

References:

1. Northcott, Kate and Switzer, Glenn. December 13, 2013. Stormwater Technical Guide. Nottawasaga Valley Conservation Authority (NVCA). 8195 8th Line, Utopia, ON. L0M1TO.
2. Hoffman, D.W., Wicklund R.E., and Richards, N.R. 1962. Soil Survey of Simcoe County Ontario. Report No.29 of the Ontario Soil Survey. Research Branch, Canada Department of Agriculture and the Ontario Agricultural College. Guelph, Ontario.
3. Civica Infrastructure Inc. March 2017. Visual OTTHYMO Reference Manual Version 5.0. Civica Municipal Water Resources.
4. Urban Hydrology for Small Watersheds. June 1986. Technical Release (TR)-55. Second Edition. Natural Resources Conservation Service. Conservation Engineering Division. United States Department of Agriculture.
5. Ministry of Transportation Guidelines.

Table D.1: Summary of Nashyd Inputs - Regional Storm Scenarios

Scenario	NHYD	DT [min]	AREA [ha]	DWF [m ³ /s]	CN	IA [mm]	N	TP [hr]	STORM INDEX	RAIN [mm/hr]
TRCA	111	5	116.21	0	95	10	1.75	1.26	1	0
TRCA	108	5	57.05	0	94	10	1.75	0.89	1	0
TRCA	102	5	150.31	0	95	10	1.75	2.1	1	0
SCE Mod	102	5	114.2	0	95	10	1.75	2.1	1	0
SCE Mod	111	5	110.28	0	95	10	1.75	1.26	1	0
SCE Mod	7622	5	8.79	0	94	10	1.75	0.89	1	0
SCE Mod	7668	5	39.53	0	95	10	1.75	0.83	1	0
SCE Mod	7680	5	24.3	0	94	10	1.75	0.89	1	0
SCE Mod	7683	5	5.87	0	94	10	1.75	0.89	1	0
SCE Mod	7685	5	7.4	0	94	10	1.75	0.89	1	0
SCE Mod	7687	5	18.09	0	94	10	1.75	0.89	1	0
SCE PD	7687	5	11.46	0	94	10	1.75	0.89	1	0
SCE PD	7685	5	6.55	0	94	10	1.75	0.89	1	0
SCE PD	7683	5	5.87	0	94	10	1.75	0.89	1	0
SCE PD	7680	5	12.56	0	94	10	1.75	0.89	1	0
SCE PD	7622	5	7.12	0	94	10	1.75	0.89	1	0
SCE PD	7668	5	31.08	0	95	10	1.75	0.83	1	0
SCE PD	102	5	113.44	0	95	10	1.75	2.1	1	0
SCE PD	111	5	110.28	0	95	10	1.75	1.26	1	0
BNHG PD	7694	5	18.33	0	95	10	1.75	2.1	1	0
BNHG PD	7687	5	11.46	0	94	10	1.75	0.89	1	0
BNHG PD	7685	5	6.55	0	94	10	1.75	0.89	1	0
BNHG PD	7683	5	4.56	0	94	10	1.75	0.89	1	0
BNHG PD	7680	5	8.74	0	94	10	1.75	0.89	1	0
BNHG PD	7622	5	7.12	0	94	10	1.75	0.89	1	0

Table D.2: Summary of Nashyd Inputs 2 - 100 Year Storm Scenarios

Scenario	NHYD	DT [min]	AREA [ha]	DWF [m ³ /s]	CN	IA [mm]	N	TP [hr]	STORM INDEX	RAIN [mm/hr]
TRCA	102	5	150.31	0	89	10	1.75	2.1	1	0
TRCA	108	5	57.05	0	88	10	1.75	0.89	1	0
TRCA	111	5	116.21	0	89	10	1.75	1.26	1	0
SCE Mod	7685	5	7.4	0	88	10	1.75	0.89	1	0
SCE Mod	111	5	110.28	0	89	10	1.75	1.26	1	0
SCE Mod	102	5	114.2	0	89	10	1.75	2.1	1	0
SCE Mod	7668	5	39.53	0	89	10	1.75	0.83	1	0
SCE Mod	7687	5	18.09	0	88	10	1.75	0.89	1	0
SCE Mod	7680	5	24.3	0	88	10	1.75	0.89	1	0
SCE Mod	7683	5	5.87	0	88	10	1.75	0.89	1	0
SCE Mod	7622	5	8.79	0	88	10	1.75	0.89	1	0
SCE PD	7687	5	11.46	0	88	10	1.75	0.89	1	0
SCE PD	111	5	110.28	0	89	10	1.75	1.26	1	0
SCE PD	102	5	113.44	0	89	10	1.75	2.1	1	0
SCE PD	7668	5	31.08	0	89	10	1.75	0.83	1	0
SCE PD	7683	5	5.87	0	88	10	1.75	0.89	1	0
SCE PD	7680	5	12.56	0	88	10	1.75	0.89	1	0
SCE PD	7622	5	7.12	0	88	10	1.75	0.89	1	0
SCE PD	7685	5	6.55	0	88	10	1.75	0.89	1	0
BNHG PD	7694	5	18.33	0	89	10	1.75	2.1	1	0
BNHG PD	111	5	110.28	0	89	10	1.75	1.26	1	0
BNHG PD	7687	5	11.46	0	88	10	1.75	0.89	1	0
BNHG PD	7668	5	31.08	0	89	10	1.75	0.83	1	0
BNHG PD	102	5	50.39	0	89	10	1.75	2.1	1	0
BNHG PD	7685	5	6.55	0	88	10	1.75	0.89	1	0
BNHG PD	7622	5	7.12	0	88	10	1.75	0.89	1	0
BNHG PD	7683	5	4.56	0	88	10	1.75	0.89	1	0
BNHG PD	7680	5	8.74	0	88	10	1.75	0.89	1	0

Table D.3: Summary of Standhyd Inputs - Regional Storm Scenarios

Scenario	NHYD	DT [min]	AREA [ha]	TIMP	XIMP	DWF [m³/s]	LOSS	SLPP [%]	LGP [m]	MNP	SCP [hr]	DPSI [mm]	SLPI [%]	LGI Type	LGI [m]	MNI	SCI [hr]	STORM INDEX	RAIN [mm/hr]	CN	IA
SCE PD	7667	5	17.88	0.72	0.62	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	345.25	0.013	0	1	0	95	1.5
SCE PD	7669	5	11.47	0.85	0.78	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	276.53	0.013	0	1	0	95	1.5
SCE PD	7674	5	0.74	0.72	0.68	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	70.24	0.013	0	1	0	93	1.5
BNHG PD	7209	5	5.13	0.59	0.5	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	184.93	0.013	0	1	0	96	5
BNHG PD	7667	5	17.88	0.72	0.62	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	345.25	0.013	0	1	0	95	1.5
BNHG PD	7669	5	11.47	0.85	0.78	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	276.53	0.013	0	1	0	95	1.5
BNHG PD	7205	5	27.24	0.57	0.49	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	426.15	0.013	0	1	0	82	5
BNHG PD	7208	5	17.48	0.59	0.5	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	341.37	0.013	0	1	0	82	5
BNHG PD	7674	5	0.74	0.72	0.68	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	70.24	0.013	0	1	0	93	1.5

Table D.4: Summary of Standhyd Inputs 2 - 100 Year Storm Scenarios

Scenario	NHYD	DT [min]	AREA [ha]	TIMP	XIMP	DWF [m³/s]	LOSS	SLPP [%]	LGP [m]	MNP	SCP [hr]	DPSI [mm]	SLPI [%]	LGI Type	LGI [m]	MNI	SCI [hr]	STORM INDEX	RAIN [mm/hr]	CN	IA
SCE PD	7667	5	17.88	0.72	0.62	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	345.25	0.013	0	1	0	85	1.5
SCE PD	7669	5	11.47	0.85	0.78	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	276.53	0.013	0	1	0	85	1.5
SCE PD	7674	5	0.74	0.72	0.68	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	70.24	0.013	0	1	0	85	1.5
BNHG PD	7209	5	5.13	0.59	0.5	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	184.93	0.013	0	1	0	96	5
BNHG PD	7669	5	11.47	0.85	0.78	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	276.53	0.013	0	1	0	85	1.5
BNHG PD	7674	5	0.74	0.72	0.68	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	70.24	0.013	0	1	0	85	1.5
BNHG PD	7208	5	17.48	0.59	0.5	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	341.37	0.013	0	1	0	82	5
BNHG PD	7205	5	27.24	0.57	0.49	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	426.15	0.013	0	1	0	82	5
BNHG PD	7667	5	17.88	0.72	0.62	0	Modified SCS Curve Method	2	40	0.25	0	1	1	Auto	345.25	0.013	0	1	0	85	1.5

Appendix E

Results Summary Tables

100 year 12 hr AES Storm

Reach	VO Element	Cross-Section	TRCA Model	SCE Existing	SCE Post Dev	BNHG Post Dev
Cold Creek West Tributary C						
A	1111	2317.44	1.94	1.91	1.91	1.91
A	111	1324.43	3.23	3.07	3.07	3.07
A	13281	621.5	3.38	3.35	3.35	3.35
B	1328	779.11	5.48	5.32	5.32	5.32
Cold Creek West Tributary B						
A	7686	981.64	-	0.92	0.66	0.66
A	108	981.64	1.90	-	-	-
A	7684	607.56	-	1.18	0.88	0.88
B	7680/7682	1000	-	0.83	2.17	2.08
C	7671	185.93	-	2.21	3.03	3.47
Cold Creek West						
A	17851	1099.88	31.50	31.39	31.39	31.39
B	1347	4301.05	32.94	29.90	29.90	29.90
C	7522	3514.84	35.64	33.00	32.72	32.66
C	767	1098.91	60.18	35.69	35.44	35.38
D	7521	1756	61.57	60.23	59.89	59.76
Main Humber Tributary A						
A	1021	4822.04	1.39	1.30	1.30	1.06
B	7668	946	-	1.46	1.15	1.15
A	102	4121.04	2.87	-	-	-
A	7670	4121.04	-	3.35	3.27	6.95
A ²	21281	3191.63	9.09	9.59	10.23	12.98
A ²	21281	2802.56	10.94	11.54	12.32	15.62
A ²	2128	2093.17	12.64	13.48	14.47	18.36
A ²	7520	1801.09	11.94	12.65	13.58	17.08
Cold Creek West						
E	1850	1402	65.54	65.61	65.25	64.63
E	7518	724	65.58	65.61	65.26	64.69
<p>Note:</p> <p>¹ – indicates that the flow applied to the related HECRAS cross section is a prorated value from the VO element</p> <p>² – due to later discretization under post-development scenarios, this reach is defined as reach C</p>						

100 Year and Regional WSE Comparison for SCE Modified Existing Conditions

	SCE Modified (Regional)		SCE Modified (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
ColdCrkWest					
A					
1099.88	156.14	233.4	30.34	232.22	Regional
968.77	156.14	233.18	30.34	231.74	Regional
907.17	156.14	232.99	30.34	231.5	Regional
886.28	156.14	232.87	30.34	231.42	Regional
821.09	156.14	232.82	30.34	231.26	Regional
754.35	156.14	232.76	30.34	231.15	Regional
681.48	156.14	232.61	30.34	231.02	Regional
564.22	156.14	232.31	30.34	230.74	Regional
532.82	156.14	232.22	30.34	230.68	Regional
472.33	156.14	232.02	30.34	230.48	Regional
416.11	156.14	232	30.34	230.42	Regional
361.76	156.14	231.93	30.34	230.34	Regional
316.69	156.14	231.75	30.34	230.16	Regional
292.48	156.14	231.67	30.34	230.13	Regional
232.38	156.14	231.6	30.34	229.97	Regional
153.19	156.14	231.37	30.34	229.66	Regional
103.34	156.14	231.21	30.34	229.56	Regional
43.78	156.14	231.07	30.34	229.35	Regional
B					
4301.05	161.61	230.66	32.06	229.02	Regional
4191.87	161.61	230.61	32.06	228.81	Regional
4149.85	161.61	230.32	32.06	228.7	Regional
4073.47	161.61	229.92	32.06	228.34	Regional
3995.95	161.61	230.04	32.06	228.32	Regional
3922.3	161.61	229.32	32.06	227.66	Regional
3843.81	161.61	229.48	32.06	227.59	Regional
3733.59	161.61	229.32	32.06	227.05	Regional
3663.48	161.61	229.34	32.06	227.06	Regional
3586.97	161.61	229.24	32.06	226.91	Regional
C					
3514.84	170.82	229.22	34.52	226.84	Regional
3443.92	170.82	229.19	34.52	226.78	Regional
3400.75	170.82	229.16	34.52	226.76	Regional
3353.9	170.82	229.13	34.52	226.71	Regional
3347.71	170.82	229.1	34.52	226.6	Regional
3328.11	170.82	228.36	34.52	226.33	Regional
3322.34	170.82	227.81	34.52	225.87	Regional
3313.99	170.82	227.76	34.52	225.99	Regional
3227.46	170.82	227.95	34.52	225.89	Regional

	SCE Modified (Regional)		SCE Modified (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
3162.11	170.82	227.44	34.52	225.66	Regional
3085.3	170.82	227.54	34.52	225.41	Regional
3010.28	170.82	227.13	34.52	225.06	Regional
2965.65	170.82	227.06	34.52	224.77	Regional
2860.3	170.82	227.19	34.52	224.73	Regional
2762.96	170.82	227.16	34.52	224.31	Regional
2705.62	170.82	227.15	34.52	224.35	Regional
2630.45	170.82	227.13	34.52	224.32	Regional
2552.07	170.82	227.04	34.52	224.13	Regional
2506.12	170.82	227.08	34.52	224.18	Regional
2451.34	170.82	227.07	34.52	224.16	Regional
2372.65	170.82	227.02	34.52	224.12	Regional
2326.52	170.82	227.01	34.52	224.11	Regional
2203.16	170.82	226.99	34.52	224.08	Regional
2193.73	170.82	226.98	34.52	223.95	Regional
2155.25	170.82	224.69	34.52	222.48	Regional
2142.71	170.82	224	34.52	222.42	Regional
2099.8	170.82	223.77	34.52	222.01	Regional
2026.97	170.82	223.13	34.52	221.82	Regional
1916.7	170.82	222.73	34.52	221.3	Regional
1810.91	170.82	222.5	34.52	220.97	Regional
1669.68	170.82	221.45	34.52	219.73	Regional
1604.17	170.82	221.39	34.52	219.76	Regional
1444.02	170.82	220.68	34.52	219.06	Regional
1370.51	170.82	220.07	34.52	218.7	Regional
1220.66	170.82	219.45	34.52	218.38	Regional
1191.49	170.82	219.36	34.52	218.33	Regional
1172.51	170.82	219.33	34.52	218.32	Regional
1161.98	170.82	219.26	34.52	217.74	Regional
1156.51	170.82	219.27	34.52	217.74	Regional
1098.91	282.72	219.19	57.27	217.62	Regional
928.99	282.72	218.56	57.27	217	Regional
732	282.72	218.17	57.27	216.63	Regional
549.97	282.72	217.84	57.27	216.5	Regional
485.47	282.72	217.72	57.27	216.47	Regional
377.88	282.72	217.68	57.27	216.46	Regional
305.08	282.72	217.6	57.27	216.43	Regional
274.22	282.72	217.38	57.27	215.68	Regional
232.9	282.72	217.37	57.27	215.67	Regional
195.78	282.72	217.34	57.27	215.66	Regional
153.24	282.72	217.35	57.27	215.66	Regional
135.63	282.72	217.34	57.27	215.66	Regional

	SCE Modified (Regional)		SCE Modified (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
117.58	282.72	217.34	57.27	215.66	Regional
95.84	282.72	217.34	57.27	215.65	Regional
89.86	282.72	217.33	57.27	215.65	Regional
7.5	282.72	217.31	57.27	215.65	Regional
-84.15	282.72	217.25	57.27	215.63	Regional
-94.72	282.72	217.27	57.27	215.63	Regional
-130.5	282.72	217.23	57.27	215.62	Regional
-155.98	282.72	215.28	57.27	213.63	Regional
-202.08	282.72	215.08	57.27	213.81	Regional
-298	282.72	215.05	57.27	213.41	Regional
D					
1756	287.01	215.11	58.26	212.26	Regional
1673	287.01	213.55	58.26	211.9	Regional
1647	287.01	213.29	58.26	211.36	Regional
1502	287.01	212.57	58.26	211.14	Regional
E					
1402	299.35	212.25	61.8	210.99	Regional
1214	299.35	212.04	61.8	210.9	Regional
1157	299.35	211.99	61.8	210.87	Regional
1127	299.35	211.99	61.8	210.87	Regional
1102	299.35	211.97	61.8	210.85	Regional
1092	299.35	211.97	61.8	210.85	Regional
1041	299.35	211.89	61.8	210.83	Regional
1016	299.35	211.83	61.8	210.8	Regional
1000	299.35	211.4	61.8	210.29	Regional
985	299.35	211.46	61.8	209.58	Regional
915	299.35	211.45	61.8	209.57	Regional
724	299.39	211.43	61.76	209.32	Regional
ColdCrkWestTrbB					
A					
981.64	2.41	259.05	0.97	258.89	Regional
945.64	2.41	258.82	0.97	258.71	Regional
919.87	2.41	258.57	0.97	258.46	Regional
884.32	2.41	258.21	0.97	258.11	Regional
849.56	2.41	257.85	0.97	257.72	Regional
806.16	2.41	257.41	0.97	257.3	Regional
770.97	2.41	257	0.97	256.91	Regional
739.57	2.41	256.81	0.97	256.7	Regional
709.09	2.41	256.67	0.97	256.55	Regional
671.44	2.41	256.49	0.97	256.36	Regional
652.51	2.41	256.25	0.97	256.14	Regional
624.08	2.41	255.61	0.97	255.53	Regional

	SCE Modified (Regional)		SCE Modified (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
607.56	3.08	254.05	1.24	253.82	Regional
568.74	3.08	251.77	1.24	251.54	Regional
533.8	3.08	250.5	1.24	250.25	Regional
487.47	3.08	248.4	1.24	248.14	Regional
443.23	3.08	246.76	1.24	246.53	Regional
400.77	3.08	244.7	1.24	244.47	Regional
361.2	3.08	242.65	1.24	242.45	Regional
329.49	3.08	240.82	1.24	240.55	Regional
307.17	3.08	239.66	1.24	239.41	Regional
280.02	3.08	238.62	1.24	238.37	Regional
232.99	3.08	236.78	1.24	236.63	Regional
B (Newly Modelled Tributary)					
1004	2.19	256.74	0.88	256.49	Regional
948	2.19	252.95	0.88	252.86	Regional
926	2.19	250.72	0.88	250.5	Regional
901	2.19	249.74	0.88	249.58	Regional
861	2.19	247.5	0.88	247.37	Regional
846	2.19	246.72	0.88	246.65	Regional
827	2.19	245.51	0.88	245.34	Regional
806	2.19	244.52	0.88	244.35	Regional
779	2.19	243.22	0.88	243.13	Regional
753	2.19	241.06	0.88	240.87	Regional
728	2.19	239.54	0.88	239.33	Regional
693	2.19	237.75	0.88	237.64	Regional
C					
185.83	5.79	234.97	2.33	234.62	Regional
128.69	5.79	233.04	2.33	232.71	Regional
91.9	5.79	231.16	2.33	230.88	Regional
53.37	5.79	231.19	2.33	229.44	Regional
ColdCrkWestTrbC					
A					
2317.44	5.33	267.95	1.97	267.76	Regional
2258.61	5.33	267.94	1.97	267.75	Regional
2195.39	5.33	267.93	1.97	267.75	Regional
2107.05	5.33	267.85	1.97	267.68	Regional
2081.85	5.33	267.61	1.97	267.44	Regional
2052.86	5.33	267.15	1.97	266.97	Regional
2026.48	5.33	267.1	1.97	266.92	Regional
1945.21	5.33	266.63	1.97	266.48	Regional
1903.63	5.33	265.51	1.97	265.31	Regional
1832.43	5.33	263.68	1.97	263.55	Regional
1779.6	5.33	263.04	1.97	262.92	Regional

	SCE Modified (Regional)		SCE Modified (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
1719.44	5.33	262.89	1.97	262.62	Regional
1691.94	5.33	262.88	1.97	262.61	Regional
1659.7	5.33	262.75	1.97	262.54	Regional
1609.61	5.33	262.49	1.97	262.31	Regional
1534.1	5.33	261.64	1.97	261.45	Regional
1477.72	5.33	261.17	1.97	260.92	Regional
1379.36	5.33	260.43	1.97	260.13	Regional
1324.43	8.55	258.29	3.15	258.16	Regional
1232.51	8.55	258	3.15	257.67	Regional
1113.91	8.55	257.9	3.15	257.57	Regional
1059.21	8.55	257.9	3.15	257.57	Regional
1027.62	8.55	257.88	3.15	257.55	Regional
999.54	8.55	257.61	3.15	257.34	Regional
931.01	8.55	257.33	3.15	257.08	Regional
864.2	8.55	257.11	3.15	256.83	Regional
842.55	8.55	256.8	3.15	256.52	Regional
734.54	8.55	256.59	3.15	255.67	Regional
709.85	8.55	256.59	3.15	255.66	Regional
655.7	8.55	256.58	3.15	255.64	Regional
621.5	9.76	256.58	3.4	255.65	Regional
605.12	9.76	256.58	3.4	255.64	Regional
581.36	9.76	254.75	3.4	254.44	Regional
559.18	9.76	254.38	3.4	254.13	Regional
513.56	9.76	253.73	3.4	253.48	Regional
424.41	9.76	252.75	3.4	252.33	Regional
376.8	9.76	252.13	3.4	251.75	Regional
330.55	9.76	251.4	3.4	250.96	Regional
262.72	9.76	249.34	3.4	248.95	Regional
221.51	9.76	248.2	3.4	247.92	Regional
179.18	9.76	247.06	3.4	246.8	Regional
150.14	9.76	246.11	3.4	245.78	Regional
68.99	9.76	244.88	3.4	244.54	Regional
24.72	9.76	244.21	3.4	244	Regional
B					
779.11	15.5	243.87	5.41	243.43	Regional
754.74	15.5	243.39	5.41	243.1	Regional
709.77	15.5	242.84	5.41	242.58	Regional
672.39	15.5	242.68	5.41	242.4	Regional
630.06	15.5	242.23	5.41	241.99	Regional
570.96	15.5	241.16	5.41	240.98	Regional
515.77	15.5	240.38	5.41	240.11	Regional
475.95	15.5	239.71	5.41	239.52	Regional

	SCE Modified (Regional)		SCE Modified (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
441.74	15.5	239.19	5.41	239.02	Regional
390.05	15.5	238.31	5.41	238.13	Regional
357.57	15.5	237.76	5.41	237.55	Regional
317.27	15.5	237.22	5.41	236.96	Regional
264.46	15.5	236.03	5.41	235.82	Regional
237.04	15.5	235.55	5.41	235.07	Regional
208.2	15.5	234.97	5.41	234.25	Regional
174.96	15.5	233.57	5.41	233.02	Regional
83.84	15.5	233.69	5.41	232.4	Regional
MainHumberTrbA					
A					
4822.04	4.03	264.04	1.26	263.83	Regional
4783.59	4.03	263.51	1.26	263.26	Regional
4731.68	4.03	262.58	1.26	262.42	Regional
4652.11	4.03	262.5	1.26	262.19	Regional
4592.65	4.03	262.5	1.26	262.18	Regional
4574	4.03	262.5	1.26	262.18	Regional
4540	4.03	262.5	1.26	262.18	Regional
4515.64	4.03	262.3	1.26	262.08	Regional
4460.59	4.03	262.28	1.26	262.03	Regional
4407.62	4.03	262.22	1.26	261.99	Regional
4354.33	4.03	262.02	1.26	261.68	Regional
4322.62	4.03	261.92	1.26	261.55	Regional
4293.51	4.03	261.67	1.26	261.41	Regional
4265.3	4.03	261.34	1.26	261.1	Regional
4240.34	4.03	260.5	1.26	260.38	Regional
4181.11	4.03	260.32	1.26	260.08	Regional
4121.04	10.1	259.79	3.42	259.61	Regional
4055.36	10.1	259.4	3.42	259.06	Regional
4004.48	10.1	259.39	3.42	259.06	Regional
3947.08	10.1	259.39	3.42	259.06	Regional
3869.46	10.1	259.39	3.42	259.06	Regional
3837.47	10.1	259.17	3.42	258.92	Regional
3758.91	10.1	258.97	3.42	258.65	Regional
3700.91	10.1	258.89	3.42	258.59	Regional
3650.13	10.1	258.75	3.42	258.48	Regional
3587.5	10.1	258.53	3.42	258.28	Regional
3530.86	10.1	258.16	3.42	257.95	Regional
3486.25	10.1	257.88	3.42	257.63	Regional
3456.94	10.1	257.56	3.42	257.41	Regional
3435.76	10.1	257.31	3.42	256.91	Regional
3426.56	10.1	257.29	3.42	256.71	Regional

	SCE Modified (Regional)		SCE Modified (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
3396.62	10.1	257.28	3.42	256.68	Regional
3377.5	10.1	257.27	3.42	256.68	Regional
3359.36	10.1	257.27	3.42	256.68	Regional
3339.67	10.1	257.27	3.42	256.68	Regional
3321.23	10.1	257.27	3.42	256.68	Regional
3287.37	10.1	257.27	3.42	256.68	Regional
3269.41	10.1	257.27	3.42	256.68	Regional
3188.65	16.99	257.23	14.66	256.63	Regional
3123.12	16.99	254.08	14.66	254.02	Regional
3107.01	16.99	254.02	14.66	253.41	Regional
3043.25	16.99	254.03	14.66	253.37	Regional
2991.29	16.99	254.03	14.66	253.36	Regional
2930.14	16.99	254.03	14.66	253.36	Regional
2887.5	16.99	254.03	14.66	253.36	Regional
2802.56	20.45	254.02	17.65	253.36	Regional
2775.8	20.45	254.02	17.65	253.36	Regional
2760.75	20.45	253.99	17.65	253.32	Regional
2706.72	20.45	250.96	17.65	250.88	Regional
2688.78	20.45	250.16	17.65	250.12	Regional
2611.59	20.45	248.57	17.65	248.54	Regional
2560.8	20.45	248.21	17.65	248.16	Regional
2506.61	20.45	247.92	17.65	247.86	Regional
2483.51	20.45	247.73	17.65	247.61	Regional
2452.23	20.45	247.66	17.65	247.48	Regional
2401.32	20.45	247.53	17.65	247.15	Regional
2367.56	20.45	247.51	17.65	246.95	Regional
2338.9	20.45	247.51	17.65	246.97	Regional
2310.58	20.45	247.51	17.65	246.96	Regional
2264.91	20.45	247.5	17.65	246.96	Regional
2209.07	20.45	247.5	17.65	246.95	Regional
2169.34	20.45	247.5	17.65	246.95	Regional
2156.52	20.45	247.46	17.65	246.91	Regional
2093.17	23.87	243.63	20.6	243.55	Regional
2079.21	23.87	243.33	20.6	243.23	Regional
2055.25	23.87	242.95	20.6	242.86	Regional
2016.73	23.87	241.87	20.6	241.79	Regional
1965.37	23.87	241.59	20.6	241.48	Regional
1917.19	23.87	241.05	20.6	241.03	Regional
1875.03	23.87	240.42	20.6	240.33	Regional
1862.94	23.87	239.59	20.6	239.54	Regional
1801.09	26.09	239.04	15.44	238.69	Regional
1765.21	26.09	238.61	15.44	238.29	Regional

	SCE Modified (Regional)		SCE Modified (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
1718.91	26.09	237.43	15.44	237.19	Regional
1661.15	26.09	236.83	15.44	236.59	Regional
1612.45	26.09	236.07	15.44	235.73	Regional
1568.23	26.09	234.91	15.44	234.56	Regional
1541.88	26.09	234.36	15.44	233.99	Regional
1489.67	26.09	233.71	15.44	233.37	Regional
1435.23	26.09	231.59	15.44	231.32	Regional
1380.7	26.09	230.72	15.44	230.4	Regional
1332.54	26.09	229.36	15.44	229.03	Regional
1302.84	26.09	228.17	15.44	227.89	Regional
1263.71	26.09	226.8	15.44	226.51	Regional
1215.31	26.09	225.43	15.44	225.13	Regional
1168.81	26.09	224.41	15.44	223.98	Regional
1130.29	26.09	223.14	15.44	222.85	Regional
1111.06	26.09	222.76	15.44	222.37	Regional
1084.58	26.09	221.96	15.44	221.69	Regional
1048.15	26.09	221.16	15.44	220.77	Regional
1028.59	26.09	220.78	15.44	220.43	Regional
996.29	26.09	220.01	15.44	219.76	Regional
965.91	26.09	219.45	15.44	219.23	Regional
908.46	26.09	218.64	15.44	218.33	Regional
879.06	26.09	218.17	15.44	217.86	Regional
847.19	26.09	217.64	15.44	217.44	Regional
820.81	26.09	217.35	15.44	217.2	Regional
807.34	26.09	217.15	15.44	216.99	Regional
794.25	26.09	216.68	15.44	216.48	Regional
770.45	26.09	216.45	15.44	216.11	Regional
738	26.09	215.92	15.44	215.62	Regional
686.51	26.09	215.17	15.44	214.91	Regional
661.93	26.09	214.6	15.44	214.31	Regional
615.04	26.09	213.93	15.44	213.67	Regional
580.25	26.09	213.56	15.44	213.41	Regional
544.59	26.09	212.95	15.44	212.85	Regional
515.79	26.09	212.85	15.44	212.84	Regional
490.99	26.09	212.85	15.44	212.25	Regional
454.35	26.09	212.84	15.44	212.14	Regional
325.04	26.09	212.84	15.44	211.63	Regional
257.06	26.09	212.84	15.44	211.56	Regional
151.19	26.09	212.83	15.44	211.3	Regional

100 Year and Regional WSE Comparison for SCE Post Dev Conditions

	SCE Post Dev (Regional)		SCE Post Dev (100 Yr 6hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
ColdCrkWest					
A					
1099.88	156.14	233.4	30.34	232.22	Regional
968.77	156.14	233.18	30.34	231.74	Regional
907.17	156.14	232.99	30.34	231.5	Regional
886.28	156.14	232.87	30.34	231.42	Regional
821.09	156.14	232.82	30.34	231.26	Regional
754.35	156.14	232.76	30.34	231.15	Regional
681.48	156.14	232.61	30.34	231.02	Regional
564.22	156.14	232.31	30.34	230.74	Regional
532.82	156.14	232.22	30.34	230.68	Regional
472.33	156.14	232.02	30.34	230.48	Regional
416.11	156.14	232	30.34	230.42	Regional
361.76	156.14	231.93	30.34	230.34	Regional
316.69	156.14	231.74	30.34	230.16	Regional
292.48	156.14	231.67	30.34	230.13	Regional
232.38	156.14	231.6	30.34	229.97	Regional
153.19	156.14	231.37	30.34	229.65	Regional
103.34	156.14	231.2	30.34	229.55	Regional
43.78	156.14	231.06	30.34	229.34	Regional
B					
4301.05	160.44	230.66	31.65	229.01	Regional
4191.87	160.44	230.6	31.65	228.79	Regional
4149.85	160.44	230.31	31.65	228.69	Regional
4073.47	160.44	229.91	31.65	228.33	Regional
3995.95	160.44	230.03	31.65	228.3	Regional
3922.3	160.44	229.32	31.65	227.65	Regional
3843.81	160.44	229.47	31.65	227.59	Regional
3733.59	160.44	229.32	31.65	227.04	Regional
3663.48	160.44	229.34	31.65	227.06	Regional
3586.97	160.44	229.24	31.65	226.9	Regional
C					
3514.84	170.2	229.21	34.17	226.83	Regional
3443.92	170.2	229.18	34.17	226.77	Regional
3400.75	170.2	229.16	34.17	226.75	Regional
3353.9	170.2	229.13	34.17	226.7	Regional
3347.71	170.2	229.1	34.17	226.59	Regional
3328.11	170.2	228.36	34.17	226.32	Regional
3322.34	170.2	227.81	34.17	225.86	Regional
3313.99	170.2	227.76	34.17	225.99	Regional

	SCE Post Dev (Regional)		SCE Post Dev (100 Yr 6hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
3227.46	170.2	227.94	34.17	225.88	Regional
3162.11	170.2	227.44	34.17	225.65	Regional
3085.3	170.2	227.54	34.17	225.4	Regional
3010.28	170.2	227.14	34.17	225.05	Regional
2965.65	170.2	227.07	34.17	224.77	Regional
2860.3	170.2	227.19	34.17	224.72	Regional
2762.96	170.2	227.17	34.17	224.29	Regional
2705.62	170.2	227.15	34.17	224.33	Regional
2630.45	170.2	227.13	34.17	224.3	Regional
2552.07	170.2	227.04	34.17	224.11	Regional
2506.12	170.2	227.08	34.17	224.16	Regional
2451.34	170.2	227.07	34.17	224.14	Regional
2372.65	170.2	227.02	34.17	224.1	Regional
2326.52	170.2	227.02	34.17	224.09	Regional
2203.16	170.2	226.99	34.17	224.05	Regional
2193.73	170.2	226.99	34.17	223.93	Regional
2155.25	170.2	224.68	34.17	222.48	Regional
2142.71	170.2	223.99	34.17	222.42	Regional
2099.8	170.2	223.77	34.17	222.01	Regional
2026.97	170.2	223.13	34.17	221.82	Regional
1916.7	170.2	222.72	34.17	221.29	Regional
1810.91	170.2	222.49	34.17	220.95	Regional
1669.68	170.2	221.44	34.17	219.73	Regional
1604.17	170.2	221.39	34.17	219.75	Regional
1444.02	170.2	220.67	34.17	219.05	Regional
1370.51	170.2	220.07	34.17	218.69	Regional
1220.66	170.2	219.44	34.17	218.36	Regional
1191.49	170.2	219.36	34.17	218.32	Regional
1172.51	170.2	219.33	34.17	218.3	Regional
1161.98	170.2	219.26	34.17	217.74	Regional
1156.51	170.2	219.26	34.17	217.74	Regional
1098.91	281.64	219.19	56.89	217.61	Regional
928.99	281.64	218.56	56.89	217	Regional
732	281.64	218.17	56.89	216.63	Regional
549.97	281.64	217.83	56.89	216.49	Regional
485.47	281.64	217.72	56.89	216.46	Regional
377.88	281.64	217.67	56.89	216.45	Regional
305.08	281.64	217.6	56.89	216.43	Regional
274.22	281.64	217.37	56.89	215.65	Regional
232.9	281.64	217.36	56.89	215.64	Regional
195.78	281.64	217.34	56.89	215.63	Regional
153.24	281.64	217.34	56.89	215.63	Regional

	SCE Post Dev (Regional)		SCE Post Dev (100 Yr 6hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
135.63	281.64	217.33	56.89	215.63	Regional
117.58	281.64	217.33	56.89	215.63	Regional
95.84	281.64	217.33	56.89	215.63	Regional
89.86	281.64	217.33	56.89	215.63	Regional
7.5	281.64	217.31	56.89	215.62	Regional
-84.15	281.64	217.25	56.89	215.61	Regional
-94.72	281.64	217.27	56.89	215.61	Regional
-130.5	281.64	217.22	56.89	215.59	Regional
-155.98	281.64	215.28	56.89	213.63	Regional
-202.08	281.64	215.08	56.89	213.8	Regional
-298	281.64	215.05	56.89	213.4	Regional
D					
1756	286.52	215.11	57.95	212.25	Regional
1673	286.52	213.54	57.95	211.9	Regional
1647	286.52	213.29	57.95	211.36	Regional
1502	286.52	212.56	57.95	211.13	Regional
E					
1402	298.13	212.24	61.36	210.99	Regional
1214	298.13	212.04	61.36	210.89	Regional
1157	298.13	211.98	61.36	210.87	Regional
1127	298.13	211.98	61.36	210.86	Regional
1102	298.13	211.96	61.36	210.85	Regional
1092	298.13	211.96	61.36	210.85	Regional
1041	298.13	211.89	61.36	210.83	Regional
1016	298.13	211.83	61.36	210.79	Regional
1000	298.13	211.4	61.36	210.28	Regional
985	298.13	211.46	61.36	209.58	Regional
915	298.13	211.45	61.36	209.57	Regional
724	298.01	211.43	61.32	209.32	Regional
ColdCrkWestTrbB					
A					
981.64	1.74	258.98	0.69	258.85	Regional
945.64	1.74	258.77	0.69	258.67	Regional
919.87	1.74	258.53	0.69	258.43	Regional
884.32	1.74	258.16	0.69	258.08	Regional
849.56	1.74	257.8	0.69	257.7	Regional
806.16	1.74	257.36	0.69	257.26	Regional
770.97	1.74	256.97	0.69	256.89	Regional
739.57	1.74	256.76	0.69	256.67	Regional
709.09	1.74	256.62	0.69	256.52	Regional
671.44	1.74	256.44	0.69	256.32	Regional
652.51	1.74	256.19	0.69	256.12	Regional

	SCE Post Dev (Regional)		SCE Post Dev (100 Yr 6hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
624.08	1.74	255.57	0.69	255.51	Regional
607.56	2.33	253.97	0.93	253.76	Regional
568.74	2.33	251.69	0.93	251.49	Regional
533.8	2.33	250.42	0.93	250.19	Regional
487.47	2.33	248.31	0.93	248.08	Regional
443.23	2.33	246.67	0.93	246.48	Regional
400.77	2.33	244.62	0.93	244.41	Regional
361.2	2.33	242.59	0.93	242.4	Regional
329.49	2.33	240.72	0.93	240.5	Regional
307.17	2.33	239.57	0.93	239.36	Regional
280.02	2.33	238.53	0.93	238.31	Regional
232.99	2.33	236.73	0.93	236.6	Regional
B (Newly Modelled Tributary)					
1004	3.48	256.88	3.42	256.87	Regional
948	3.48	253.02	3.42	253.01	Regional
926	3.48	250.88	3.42	250.87	Regional
901	3.48	249.86	3.42	249.86	Regional
861	3.48	247.58	3.42	247.57	Regional
846	3.48	246.77	3.42	246.76	Regional
827	3.48	245.63	3.42	245.63	Regional
806	3.48	244.65	3.42	244.65	Regional
779	3.48	243.29	3.42	243.29	Regional
753	3.48	241.18	3.42	241.18	Regional
728	3.48	239.68	3.42	239.68	Regional
693	3.48	237.82	3.42	237.82	Regional
C					
185.83	5.88	234.98	4.1	234.83	Regional
128.69	5.88	233.05	4.1	232.89	Regional
91.9	5.88	231.17	4.1	231.04	Regional
53.37	5.88	231.18	4.1	229.63	Regional
ColdCrkWestTrbC					
A					
2317.44	5.33	267.95	1.97	267.76	Regional
2258.61	5.33	267.94	1.97	267.75	Regional
2195.39	5.33	267.93	1.97	267.75	Regional
2107.05	5.33	267.85	1.97	267.68	Regional
2081.85	5.33	267.61	1.97	267.44	Regional
2052.86	5.33	267.15	1.97	266.97	Regional
2026.48	5.33	267.1	1.97	266.92	Regional
1945.21	5.33	266.63	1.97	266.48	Regional
1903.63	5.33	265.51	1.97	265.31	Regional
1832.43	5.33	263.68	1.97	263.55	Regional

	SCE Post Dev (Regional)		SCE Post Dev (100 Yr 6hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
1779.6	5.33	263.04	1.97	262.92	Regional
1719.44	5.33	262.89	1.97	262.62	Regional
1691.94	5.33	262.88	1.97	262.61	Regional
1659.7	5.33	262.75	1.97	262.54	Regional
1609.61	5.33	262.49	1.97	262.31	Regional
1534.1	5.33	261.64	1.97	261.45	Regional
1477.72	5.33	261.17	1.97	260.92	Regional
1379.36	5.33	260.43	1.97	260.13	Regional
1324.43	8.55	258.29	3.15	258.16	Regional
1232.51	8.55	258	3.15	257.67	Regional
1113.91	8.55	257.9	3.15	257.57	Regional
1059.21	8.55	257.9	3.15	257.57	Regional
1027.62	8.55	257.88	3.15	257.55	Regional
999.54	8.55	257.61	3.15	257.34	Regional
931.01	8.55	257.33	3.15	257.08	Regional
864.2	8.55	257.11	3.15	256.83	Regional
842.55	8.55	256.8	3.15	256.52	Regional
734.54	8.55	256.59	3.15	255.67	Regional
709.85	8.55	256.59	3.15	255.66	Regional
655.7	8.55	256.58	3.15	255.64	Regional
621.5	9.76	256.58	3.4	255.65	Regional
605.12	9.76	256.58	3.4	255.64	Regional
581.36	9.76	254.75	3.4	254.44	Regional
559.18	9.76	254.38	3.4	254.13	Regional
513.56	9.76	253.73	3.4	253.48	Regional
424.41	9.76	252.75	3.4	252.33	Regional
376.8	9.76	252.13	3.4	251.75	Regional
330.55	9.76	251.4	3.4	250.96	Regional
262.72	9.76	249.34	3.4	248.95	Regional
221.51	9.76	248.2	3.4	247.92	Regional
179.18	9.76	247.06	3.4	246.8	Regional
150.14	9.76	246.11	3.4	245.78	Regional
68.99	9.76	244.88	3.4	244.54	Regional
24.72	9.76	244.21	3.4	244	Regional
B					
779.11	15.5	243.87	5.41	243.43	Regional
754.74	15.5	243.39	5.41	243.1	Regional
709.77	15.5	242.84	5.41	242.58	Regional
672.39	15.5	242.68	5.41	242.4	Regional
630.06	15.5	242.23	5.41	241.99	Regional
570.96	15.5	241.16	5.41	240.98	Regional
515.77	15.5	240.38	5.41	240.11	Regional

	SCE Post Dev (Regional)		SCE Post Dev (100 Yr 6hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
475.95	15.5	239.71	5.41	239.52	Regional
441.74	15.5	239.19	5.41	239.02	Regional
390.05	15.5	238.31	5.41	238.13	Regional
357.57	15.5	237.76	5.41	237.55	Regional
317.27	15.5	237.22	5.41	236.96	Regional
264.46	15.5	236.03	5.41	235.82	Regional
237.04	15.5	235.55	5.41	235.07	Regional
208.2	15.5	234.97	5.41	234.25	Regional
174.96	15.5	233.57	5.41	233.02	Regional
83.84	15.5	233.69	5.41	232.4	Regional
MainHumberTrbA					
A					
4822.04	4.03	264.04	1.26	263.83	Regional
4783.59	4.03	263.51	1.26	263.26	Regional
4731.68	4.03	262.58	1.26	262.42	Regional
4652.11	4.03	262.5	1.26	262.19	Regional
4592.65	4.03	262.5	1.26	262.18	Regional
4574	4.03	262.5	1.26	262.18	Regional
4540	4.03	262.5	1.26	262.18	Regional
4515.64	4.03	262.3	1.26	262.08	Regional
4460.59	4.03	262.28	1.26	262.03	Regional
4407.62	4.03	262.22	1.26	261.99	Regional
4354.33	4.03	262.02	1.26	261.68	Regional
4322.62	4.03	261.92	1.26	261.55	Regional
4293.51	4.03	261.67	1.26	261.41	Regional
4265.3	4.03	261.34	1.26	261.1	Regional
4240.34	4.03	260.5	1.26	260.38	Regional
4181.11	4.03	260.32	1.26	260.08	Regional
4121.04	10.22	259.79	3.42	259.61	Regional
4055.36	10.22	259.4	3.42	259.06	Regional
4004.48	10.22	259.4	3.42	259.06	Regional
3947.08	10.22	259.4	3.42	259.06	Regional
3869.46	10.22	259.39	3.42	259.06	Regional
3837.47	10.22	259.17	3.42	258.92	Regional
3758.91	10.22	258.97	3.42	258.65	Regional
3700.91	10.22	258.89	3.42	258.59	Regional
3650.13	10.22	258.76	3.42	258.48	Regional
3587.5	10.22	258.52	3.42	258.28	Regional
3530.86	10.22	258.22	3.42	257.95	Regional
3486.25	10.22	257.73	3.42	257.64	Regional
3456.94	10.22	257.74	3.42	257.41	Regional
3435.76	10.22	257.57	3.42	257.03	Regional

	SCE Post Dev (Regional)		SCE Post Dev (100 Yr 6hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
3426.56	10.22	257.47	3.42	257.02	Regional
3396.62	10.22	257.46	3.42	257.02	Regional
3377.5	10.22	257.45	3.42	257.01	Regional
3359.36	10.22	257.45	3.42	257.01	Regional
3339.67	10.22	257.45	3.42	257.01	Regional
3321.23	10.22	257.45	3.42	257.01	Regional
3287.37	10.22	257.45	3.42	257.01	Regional
3269.41	10.22	257.44	3.42	257.01	Regional
3188.65	17.62	257.4	16.03	256.97	Regional
3123.12	17.62	254.1	16.03	254.05	Regional
3107.01	17.62	254.21	16.03	253.72	Regional
3043.25	17.62	254.21	16.03	253.74	Regional
2991.29	17.62	254.21	16.03	253.74	Regional
2930.14	17.62	254.21	16.03	253.74	Regional
2887.5	17.62	254.21	16.03	253.74	Regional
2802.56	21.21	254.21	19.29	253.74	Regional
2775.8	21.21	254.21	19.29	253.74	Regional
2760.75	21.21	254.18	19.29	253.7	Regional
2706.72	21.21	250.98	19.29	250.93	Regional
2688.78	21.21	250.17	19.29	250.14	Regional
2611.59	21.21	248.58	19.29	248.56	Regional
2560.8	21.21	248.23	19.29	248.19	Regional
2506.61	21.21	247.99	19.29	247.89	Regional
2483.51	21.21	247.89	19.29	247.66	Regional
2452.23	21.21	247.86	19.29	247.56	Regional
2401.32	21.21	247.78	19.29	247.37	Regional
2367.56	21.21	247.77	19.29	247.33	Regional
2338.9	21.21	247.77	19.29	247.33	Regional
2310.58	21.21	247.77	19.29	247.33	Regional
2264.91	21.21	247.77	19.29	247.33	Regional
2209.07	21.21	247.77	19.29	247.32	Regional
2169.34	21.21	247.77	19.29	247.32	Regional
2156.52	21.21	247.73	19.29	247.28	Regional
2093.17	24.91	243.66	22.67	243.61	Regional
2079.21	24.91	243.35	22.67	243.29	Regional
2055.25	24.91	242.97	22.67	242.91	Regional
2016.73	24.91	241.89	22.67	241.84	Regional
1965.37	24.91	241.61	22.67	241.55	Regional
1917.19	24.91	241.09	22.67	241.05	Regional
1875.03	24.91	240.45	22.67	240.4	Regional
1862.94	24.91	239.59	22.67	239.57	Regional
1801.09	26.91	239.05	16.97	238.73	Regional

	SCE Post Dev (Regional)		SCE Post Dev (100 Yr 6hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
1765.21	26.91	238.63	16.97	238.37	Regional
1718.91	26.91	237.44	16.97	237.24	Regional
1661.15	26.91	236.84	16.97	236.62	Regional
1612.45	26.91	236.08	16.97	235.77	Regional
1568.23	26.91	234.93	16.97	234.59	Regional
1541.88	26.91	234.39	16.97	234.05	Regional
1489.67	26.91	233.72	16.97	233.43	Regional
1435.23	26.91	231.6	16.97	231.37	Regional
1380.7	26.91	230.74	16.97	230.44	Regional
1332.54	26.91	229.36	16.97	229.08	Regional
1302.84	26.91	228.19	16.97	227.94	Regional
1263.71	26.91	226.82	16.97	226.55	Regional
1215.31	26.91	225.45	16.97	225.18	Regional
1168.81	26.91	224.46	16.97	224.04	Regional
1130.29	26.91	223.17	16.97	222.9	Regional
1111.06	26.91	222.78	16.97	222.43	Regional
1084.58	26.91	221.98	16.97	221.75	Regional
1048.15	26.91	221.2	16.97	220.83	Regional
1028.59	26.91	220.81	16.97	220.49	Regional
996.29	26.91	220.03	16.97	219.8	Regional
965.91	26.91	219.46	16.97	219.26	Regional
908.46	26.91	218.66	16.97	218.37	Regional
879.06	26.91	218.19	16.97	217.91	Regional
847.19	26.91	217.73	16.97	217.48	Regional
820.81	26.91	217.37	16.97	217.23	Regional
807.34	26.91	217.14	16.97	217.01	Regional
794.25	26.91	216.69	16.97	216.55	Regional
770.45	26.91	216.47	16.97	216.15	Regional
738	26.91	215.94	16.97	215.67	Regional
686.51	26.91	215.18	16.97	214.95	Regional
661.93	26.91	214.6	16.97	214.36	Regional
615.04	26.91	213.95	16.97	213.72	Regional
580.25	26.91	213.57	16.97	213.43	Regional
544.59	26.91	212.96	16.97	212.86	Regional
515.79	26.91	212.85	16.97	212.84	Regional
490.99	26.91	212.84	16.97	212.27	Regional
454.35	26.91	212.84	16.97	211.99	Regional
325.04	26.91	212.84	16.97	211.67	Regional
257.06	26.91	212.83	16.97	211.59	Regional
151.19	26.91	212.83	16.97	211.29	Regional

100 Year and Regional WSE Comparison for BNHG Post Dev Conditions

	BNHG Post Dev (Regional)		BNHG Post Dev (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
ColdCrkWest					
A					
1099.88	156.14	233.4	30.34	232.22	Regional
968.77	156.14	233.18	30.34	231.74	Regional
907.17	156.14	232.99	30.34	231.5	Regional
886.28	156.14	232.87	30.34	231.42	Regional
821.09	156.14	232.82	30.34	231.26	Regional
754.35	156.14	232.76	30.34	231.15	Regional
681.48	156.14	232.61	30.34	231.02	Regional
564.22	156.14	232.31	30.34	230.74	Regional
532.82	156.14	232.22	30.34	230.68	Regional
472.33	156.14	232.02	30.34	230.48	Regional
416.11	156.14	232	30.34	230.42	Regional
361.76	156.14	231.93	30.34	230.34	Regional
316.69	156.14	231.74	30.34	230.16	Regional
292.48	156.14	231.67	30.34	230.13	Regional
232.38	156.14	231.59	30.34	229.97	Regional
153.19	156.14	231.37	30.34	229.65	Regional
103.34	156.14	231.2	30.34	229.55	Regional
43.78	156.14	231.06	30.34	229.33	Regional
B					
4301.05	160.06	230.65	31.56	229.01	Regional
4191.87	160.06	230.6	31.56	228.79	Regional
4149.85	160.06	230.31	31.56	228.69	Regional
4073.47	160.06	229.91	31.56	228.33	Regional
3995.95	160.06	230.03	31.56	228.3	Regional
3922.3	160.06	229.32	31.56	227.65	Regional
3843.81	160.06	229.47	31.56	227.58	Regional
3733.59	160.06	229.31	31.56	227.04	Regional
3663.48	160.06	229.33	31.56	227.05	Regional
3586.97	160.06	229.23	31.56	226.9	Regional
C					
3514.84	169.83	229.21	34.09	226.83	Regional
3443.92	169.83	229.18	34.09	226.77	Regional
3400.75	169.83	229.15	34.09	226.74	Regional
3353.9	169.83	229.12	34.09	226.69	Regional
3347.71	169.83	229.09	34.09	226.58	Regional
3328.11	169.83	228.36	34.09	226.32	Regional
3322.34	169.83	227.8	34.09	225.86	Regional
3313.99	169.83	227.76	34.09	225.99	Regional

	BNHG Post Dev (Regional)		BNHG Post Dev (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
3227.46	169.83	227.94	34.09	225.88	Regional
3162.11	169.83	227.44	34.09	225.65	Regional
3085.3	169.83	227.53	34.09	225.4	Regional
3010.28	169.83	227.13	34.09	225.05	Regional
2965.65	169.83	227.05	34.09	224.77	Regional
2860.3	169.83	227.18	34.09	224.72	Regional
2762.96	169.83	227.15	34.09	224.29	Regional
2705.62	169.83	227.14	34.09	224.33	Regional
2630.45	169.83	227.12	34.09	224.3	Regional
2552.07	169.83	227.03	34.09	224.11	Regional
2506.12	169.83	227.07	34.09	224.16	Regional
2451.34	169.83	227.06	34.09	224.14	Regional
2372.65	169.83	227.01	34.09	224.09	Regional
2326.52	169.83	227.01	34.09	224.09	Regional
2203.16	169.83	226.98	34.09	224.05	Regional
2193.73	169.83	226.98	34.09	223.93	Regional
2155.25	169.83	224.67	34.09	222.47	Regional
2142.71	169.83	223.99	34.09	222.42	Regional
2099.8	169.83	223.76	34.09	222	Regional
2026.97	169.83	223.13	34.09	221.81	Regional
1916.7	169.83	222.71	34.09	221.29	Regional
1810.91	169.83	222.48	34.09	220.95	Regional
1669.68	169.83	221.47	34.09	219.73	Regional
1604.17	169.83	221.38	34.09	219.75	Regional
1444.02	169.83	220.66	34.09	219.05	Regional
1370.51	169.83	220.07	34.09	218.69	Regional
1220.66	169.83	219.44	34.09	218.36	Regional
1191.49	169.83	219.36	34.09	218.31	Regional
1172.51	169.83	219.33	34.09	218.3	Regional
1161.98	169.83	219.26	34.09	217.74	Regional
1156.51	169.83	219.26	34.09	217.74	Regional
1098.91	281.36	219.19	56.8	217.61	Regional
928.99	281.36	218.55	56.8	216.99	Regional
732	281.36	218.17	56.8	216.63	Regional
549.97	281.36	217.83	56.8	216.49	Regional
485.47	281.36	217.72	56.8	216.46	Regional
377.88	281.36	217.67	56.8	216.45	Regional
305.08	281.36	217.6	56.8	216.43	Regional
274.22	281.36	217.37	56.8	215.65	Regional
232.9	281.36	217.36	56.8	215.64	Regional
195.78	281.36	217.34	56.8	215.63	Regional
153.24	281.36	217.34	56.8	215.63	Regional

	BNHG Post Dev (Regional)		BNHG Post Dev (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
135.63	281.36	217.33	56.8	215.63	Regional
117.58	281.36	217.33	56.8	215.63	Regional
95.84	281.36	217.33	56.8	215.62	Regional
89.86	281.36	217.33	56.8	215.62	Regional
7.5	281.36	217.31	56.8	215.62	Regional
-84.15	281.36	217.25	56.8	215.6	Regional
-94.72	281.36	217.26	56.8	215.6	Regional
-130.5	281.36	217.22	56.8	215.59	Regional
-155.98	281.36	215.27	56.8	213.63	Regional
-202.08	281.36	215.07	56.8	213.8	Regional
-298	281.36	215.05	56.8	213.4	Regional
D					
1756	286.26	215.11	57.87	212.25	Regional
1673	286.26	213.53	57.87	211.9	Regional
1647	286.26	213.29	57.87	211.35	Regional
1502	286.26	212.55	57.87	211.13	Regional
E					
1402	295.86	212.24	60.65	210.98	Regional
1214	295.86	212.03	60.65	210.89	Regional
1157	295.86	211.97	60.65	210.86	Regional
1127	295.86	211.97	60.65	210.86	Regional
1102	295.86	211.95	60.65	210.84	Regional
1092	295.86	211.95	60.65	210.84	Regional
1041	295.86	211.88	60.65	210.82	Regional
1016	295.86	211.82	60.65	210.79	Regional
1000	295.86	211.4	60.65	210.29	Regional
985	295.86	211.46	60.65	209.57	Regional
915	295.86	211.45	60.65	209.57	Regional
724	295.83	211.43	60.65	209.32	Regional
ColdCrkWestTrbB					
A					
981.64	1.74	258.98	0.69	258.85	Regional
945.64	1.74	258.77	0.69	258.67	Regional
919.87	1.74	258.53	0.69	258.43	Regional
884.32	1.74	258.16	0.69	258.08	Regional
849.56	1.74	257.8	0.69	257.7	Regional
806.16	1.74	257.36	0.69	257.26	Regional
770.97	1.74	256.97	0.69	256.89	Regional
739.57	1.74	256.76	0.69	256.67	Regional
709.09	1.74	256.62	0.69	256.52	Regional
671.44	1.74	256.44	0.69	256.32	Regional
652.51	1.74	256.19	0.69	256.12	Regional

	BNHG Post Dev (Regional)		BNHG Post Dev (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
624.08	1.74	255.57	0.69	255.51	Regional
607.56	2.33	253.97	0.93	253.76	Regional
568.74	2.33	251.69	0.93	251.49	Regional
533.8	2.33	250.42	0.93	250.19	Regional
487.47	2.33	248.31	0.93	248.08	Regional
443.23	2.33	246.67	0.93	246.48	Regional
400.77	2.33	244.62	0.93	244.41	Regional
361.2	2.33	242.59	0.93	242.4	Regional
329.49	2.33	240.72	0.93	240.5	Regional
307.17	2.33	239.57	0.93	239.36	Regional
280.02	2.33	238.53	0.93	238.31	Regional
232.99	2.33	236.73	0.93	236.6	Regional
B (Newly Modelled Tributary)					
1004	3.21	256.86	3.35	256.87	100 Year
948	3.21	253	3.35	253.01	100 Year
926	3.21	250.85	3.35	250.87	100 Year
901	3.21	249.84	3.35	249.85	100 Year
861	3.21	247.56	3.35	247.57	100 Year
846	3.21	246.76	3.35	246.76	Regional
827	3.21	245.61	3.35	245.62	100 Year
806	3.21	244.62	3.35	244.64	100 Year
779	3.21	243.28	3.35	243.28	Regional
753	3.21	241.16	3.35	241.17	100 Year
728	3.21	239.66	3.35	239.67	100 Year
693	3.21	237.8	3.35	237.82	100 Year
C					
185.83	6.12	235	4.99	234.91	Regional
128.69	6.12	233.07	4.99	232.94	Regional
91.9	6.12	231.18	4.99	231.1	Regional
53.37	6.12	231.18	4.99	229.71	Regional
ColdCrkWestTrbC					
A					
2317.44	5.33	267.95	1.97	267.76	Regional
2258.61	5.33	267.94	1.97	267.75	Regional
2195.39	5.33	267.93	1.97	267.75	Regional
2107.05	5.33	267.85	1.97	267.68	Regional
2081.85	5.33	267.61	1.97	267.44	Regional
2052.86	5.33	267.15	1.97	266.97	Regional
2026.48	5.33	267.1	1.97	266.92	Regional
1945.21	5.33	266.63	1.97	266.48	Regional
1903.63	5.33	265.51	1.97	265.31	Regional
1832.43	5.33	263.68	1.97	263.55	Regional

	BNHG Post Dev (Regional)		BNHG Post Dev (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
1779.6	5.33	263.04	1.97	262.92	Regional
1719.44	5.33	262.89	1.97	262.62	Regional
1691.94	5.33	262.88	1.97	262.61	Regional
1659.7	5.33	262.75	1.97	262.54	Regional
1609.61	5.33	262.49	1.97	262.31	Regional
1534.1	5.33	261.64	1.97	261.45	Regional
1477.72	5.33	261.17	1.97	260.92	Regional
1379.36	5.33	260.43	1.97	260.13	Regional
1324.43	8.55	258.29	3.15	258.16	Regional
1232.51	8.55	258	3.15	257.67	Regional
1113.91	8.55	257.9	3.15	257.57	Regional
1059.21	8.55	257.9	3.15	257.57	Regional
1027.62	8.55	257.88	3.15	257.55	Regional
999.54	8.55	257.61	3.15	257.34	Regional
931.01	8.55	257.33	3.15	257.08	Regional
864.2	8.55	257.11	3.15	256.83	Regional
842.55	8.55	256.8	3.15	256.52	Regional
734.54	8.55	256.59	3.15	255.67	Regional
709.85	8.55	256.59	3.15	255.66	Regional
655.7	8.55	256.58	3.15	255.64	Regional
621.5	9.76	256.58	3.4	255.65	Regional
605.12	9.76	256.58	3.4	255.64	Regional
581.36	9.76	254.75	3.4	254.44	Regional
559.18	9.76	254.38	3.4	254.13	Regional
513.56	9.76	253.73	3.4	253.48	Regional
424.41	9.76	252.75	3.4	252.33	Regional
376.8	9.76	252.13	3.4	251.75	Regional
330.55	9.76	251.4	3.4	250.96	Regional
262.72	9.76	249.34	3.4	248.95	Regional
221.51	9.76	248.2	3.4	247.92	Regional
179.18	9.76	247.06	3.4	246.8	Regional
150.14	9.76	246.11	3.4	245.78	Regional
68.99	9.76	244.88	3.4	244.54	Regional
24.72	9.76	244.21	3.4	244	Regional
B					
779.11	15.5	243.87	5.41	243.43	Regional
754.74	15.5	243.39	5.41	243.1	Regional
709.77	15.5	242.84	5.41	242.58	Regional
672.39	15.5	242.68	5.41	242.4	Regional
630.06	15.5	242.23	5.41	241.99	Regional
570.96	15.5	241.16	5.41	240.98	Regional
515.77	15.5	240.38	5.41	240.11	Regional

	BNHG Post Dev (Regional)		BNHG Post Dev (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
475.95	15.5	239.71	5.41	239.52	Regional
441.74	15.5	239.19	5.41	239.02	Regional
390.05	15.5	238.31	5.41	238.13	Regional
357.57	15.5	237.76	5.41	237.55	Regional
317.27	15.5	237.22	5.41	236.96	Regional
264.46	15.5	236.03	5.41	235.82	Regional
237.04	15.5	235.55	5.41	235.07	Regional
208.2	15.5	234.97	5.41	234.25	Regional
174.96	15.5	233.57	5.41	233.02	Regional
83.84	15.5	233.69	5.41	232.4	Regional
MainHumberTrbA					
A					
4822.04	4.51	264.07	4.26	264.06	Regional
4783.59	4.51	263.53	4.26	263.52	Regional
4731.68	4.51	262.59	4.26	262.58	Regional
4652.11	4.51	262.54	4.26	262.52	Regional
4592.65	4.51	262.54	4.26	262.52	Regional
4574	4.51	262.54	4.26	262.52	Regional
4540	4.51	262.54	4.26	262.52	Regional
4515.64	4.51	262.34	4.26	262.32	Regional
4460.59	4.51	262.32	4.26	262.3	Regional
4407.62	4.51	262.26	4.26	262.24	Regional
4354.33	4.51	262.06	4.26	262.04	Regional
4322.62	4.51	261.96	4.26	261.94	Regional
4293.51	4.51	261.69	4.26	261.68	Regional
4265.3	4.51	261.37	4.26	261.36	Regional
4240.34	4.51	260.54	4.26	260.51	Regional
4181.11	4.51	260.38	4.26	260.32	Regional
4121.04	12.95	259.85	10.17	259.79	Regional
4055.36	12.95	259.5	10.17	259.4	Regional
4004.48	12.95	259.5	10.17	259.4	Regional
3947.08	12.95	259.5	10.17	259.4	Regional
3869.46	12.95	259.49	10.17	259.39	Regional
3837.47	12.95	259.23	10.17	259.17	Regional
3758.91	12.95	259.07	10.17	258.97	Regional
3700.91	12.95	258.98	10.17	258.89	Regional
3650.13	12.95	258.84	10.17	258.76	Regional
3587.5	12.95	258.61	10.17	258.53	Regional
3530.86	12.95	258.23	10.17	258.16	Regional
3486.25	12.95	257.99	10.17	258	100 Year
3456.94	12.95	258	10.17	258.01	100 Year
3435.76	12.95	258	10.17	258	Regional

	BNHG Post Dev (Regional)		BNHG Post Dev (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
3426.56	12.95	258	10.17	258.01	100 Year
3396.62	12.95	258	10.17	258.01	100 Year
3377.5	12.95	258	10.17	258	Regional
3359.36	12.95	258	10.17	258	Regional
3339.67	12.95	257.99	10.17	258	100 Year
3321.23	12.95	257.99	10.17	258	100 Year
3287.37	12.95	257.99	10.17	258	100 Year
3269.41	12.95	257.99	10.17	258	100 Year
3188.65	20.72	257.99	20.78	258	100 Year
3123.12	20.72	255.16	20.78	255.18	100 Year
3107.01	20.72	255.2	20.78	255.22	100 Year
3043.25	20.72	255.2	20.78	255.22	100 Year
2991.29	20.72	255.2	20.78	255.22	100 Year
2930.14	20.72	255.2	20.78	255.22	100 Year
2887.5	20.72	255.2	20.78	255.22	100 Year
2802.56	24.95	255.2	25.02	255.22	100 Year
2775.8	24.95	255.2	25.02	255.22	100 Year
2760.75	24.95	255.2	25.02	255.22	100 Year
2706.72	24.95	251.08	25.02	251.08	Regional
2688.78	24.95	250.23	25.02	250.23	Regional
2611.59	24.95	249.09	25.02	249.11	100 Year
2560.8	24.95	249.08	25.02	249.1	100 Year
2506.61	24.95	249.07	25.02	249.09	100 Year
2483.51	24.95	249.06	25.02	249.08	100 Year
2452.23	24.95	249.06	25.02	249.08	100 Year
2401.32	24.95	249.05	25.02	249.07	100 Year
2367.56	24.95	249.05	25.02	249.07	100 Year
2338.9	24.95	249.05	25.02	249.07	100 Year
2310.58	24.95	249.05	25.02	249.07	100 Year
2264.91	24.95	249.05	25.02	249.07	100 Year
2209.07	24.95	249.05	25.02	249.07	100 Year
2169.34	24.95	249.04	25.02	249.07	100 Year
2156.52	24.95	249.01	25.02	249.04	100 Year
2093.17	29.32	243.77	29.41	243.76	Regional
2079.21	29.32	243.48	29.41	243.48	Regional
2055.25	29.32	243.06	29.41	243.07	100 Year
2016.73	29.32	241.99	29.41	241.99	Regional
1965.37	29.32	241.78	29.41	241.78	Regional
1917.19	29.32	241.09	29.41	241.09	Regional
1875.03	29.32	240.53	29.41	240.53	Regional
1862.94	29.32	239.9	29.41	239.9	Regional
1801.09	30.81	239.12	21.91	238.95	Regional

	BNHG Post Dev (Regional)		BNHG Post Dev (100Yr 6 Hr)		Regulatory
	Q Total	W.S. Elev	Q Total	W.S. Elev	
	(m3/s)	(m)	(m3/s)	(m)	
1765.21	30.81	238.72	21.91	238.51	Regional
1718.91	30.81	237.53	21.91	237.34	Regional
1661.15	30.81	236.89	21.91	236.76	Regional
1612.45	30.81	236.31	21.91	235.86	Regional
1568.23	30.81	235.01	21.91	234.81	Regional
1541.88	30.81	234.48	21.91	234.23	Regional
1489.67	30.81	233.78	21.91	233.6	Regional
1435.23	30.81	231.69	21.91	231.49	Regional
1380.7	30.81	230.81	21.91	230.55	Regional
1332.54	30.81	229.36	21.91	229.24	Regional
1302.84	30.81	228.26	21.91	228.07	Regional
1263.71	30.81	226.91	21.91	226.69	Regional
1215.31	30.81	225.54	21.91	225.32	Regional
1168.81	30.81	224.6	21.91	224.23	Regional
1130.29	30.81	223.26	21.91	223.04	Regional
1111.06	30.81	222.9	21.91	222.62	Regional
1084.58	30.81	222.08	21.91	221.87	Regional
1048.15	30.81	221.32	21.91	221	Regional
1028.59	30.81	220.91	21.91	220.66	Regional
996.29	30.81	220.1	21.91	219.92	Regional
965.91	30.81	219.53	21.91	219.37	Regional
908.46	30.81	218.74	21.91	218.53	Regional
879.06	30.81	218.29	21.91	218.05	Regional
847.19	30.81	217.79	21.91	217.58	Regional
820.81	30.81	217.42	21.91	217.31	Regional
807.34	30.81	217.18	21.91	217.07	Regional
794.25	30.81	216.74	21.91	216.61	Regional
770.45	30.81	216.52	21.91	216.39	Regional
738	30.81	215.99	21.91	215.85	Regional
686.51	30.81	215.29	21.91	215.07	Regional
661.93	30.81	214.85	21.91	214.51	Regional
615.04	30.81	214.01	21.91	213.86	Regional
580.25	30.81	213.61	21.91	213.51	Regional
544.59	30.81	212.99	21.91	212.92	Regional
515.79	30.81	212.85	21.91	212.84	Regional
490.99	30.81	212.85	21.91	212.33	Regional
454.35	30.81	212.84	21.91	212.23	Regional
325.04	30.81	212.83	21.91	211.8	Regional
257.06	30.81	212.83	21.91	211.72	Regional
151.19	30.81	212.82	21.91	211.25	Regional

Date: May 29 2025

Mt. Hope REGIONAL Downstream Flow and Water Surface Elevation Analysis

	TRCA Existing		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
ColdCrkWest																				
A																				
1099.88	156.33	233.4	156.14	233.4	156.14	233.4	156.14	233.4	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
968.77	156.33	233.18	156.14	233.18	156.14	233.18	156.14	233.18	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
907.17	156.33	232.99	156.14	232.99	156.14	232.99	156.14	232.99	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
886.28	156.33	232.88	156.14	232.87	156.14	232.87	156.14	232.87	-0.19	-0.12%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
821.09	156.33	232.82	156.14	232.82	156.14	232.82	156.14	232.82	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
754.35	156.33	232.76	156.14	232.76	156.14	232.76	156.14	232.76	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
681.48	156.33	232.61	156.14	232.61	156.14	232.61	156.14	232.61	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
564.22	156.33	232.32	156.14	232.31	156.14	232.31	156.14	232.31	-0.19	-0.12%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
532.82	156.33	232.22	156.14	232.22	156.14	232.22	156.14	232.22	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
472.33	156.33	232.02	156.14	232.02	156.14	232.02	156.14	232.02	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
416.11	156.33	232	156.14	232	156.14	232	156.14	232	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
361.76	156.33	231.94	156.14	231.93	156.14	231.93	156.14	231.93	-0.19	-0.12%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
316.69	156.33	231.75	156.14	231.75	156.14	231.74	156.14	231.74	-0.19	-0.12%	0.00	0.00%	0	0.00%	-0.01	0.00%	0	0.00%	-0.01	0.00%
292.48	156.33	231.67	156.14	231.67	156.14	231.67	156.14	231.67	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
232.38	156.33	231.6	156.14	231.6	156.14	231.6	156.14	231.59	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	-0.01	0.00%
153.19	156.33	231.37	156.14	231.37	156.14	231.37	156.14	231.37	-0.19	-0.12%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
103.34	156.33	231.21	156.14	231.21	156.14	231.2	156.14	231.2	-0.19	-0.12%	0.00	0.00%	0	0.00%	-0.01	0.00%	0	0.00%	-0.01	0.00%
43.78	156.33	231.07	156.14	231.07	156.14	231.06	156.14	231.06	-0.19	-0.12%	0.00	0.00%	0	0.00%	-0.01	0.00%	0	0.00%	-0.01	0.00%
B																				
4301.05	161.51	230.66	161.61	230.66	160.44	230.66	160.06	230.65	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	0.00	0.00%	-1.55	-0.96%	-0.01	0.00%
4191.87	161.51	230.61	161.61	230.61	160.44	230.6	160.06	230.6	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	-0.01	0.00%	-1.55	-0.96%	-0.01	0.00%
4149.85	161.51	230.32	161.61	230.32	160.44	230.31	160.06	230.31	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	-0.01	0.00%	-1.55	-0.96%	-0.01	0.00%
4073.47	161.51	229.92	161.61	229.92	160.44	229.91	160.06	229.91	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	-0.01	0.00%	-1.55	-0.96%	-0.01	0.00%
3995.95	161.51	230.04	161.61	230.04	160.44	230.03	160.06	230.03	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	-0.01	0.00%	-1.55	-0.96%	-0.01	0.00%
3922.3	161.51	229.32	161.61	229.32	160.44	229.32	160.06	229.32	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	0.00	0.00%	-1.55	-0.96%	0.00	0.00%
3843.81	161.51	229.48	161.61	229.48	160.44	229.47	160.06	229.47	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	-0.01	0.00%	-1.55	-0.96%	-0.01	0.00%
3733.59	161.51	229.32	161.61	229.32	160.44	229.32	160.06	229.31	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	0.00	0.00%	-1.55	-0.96%	-0.01	0.00%
3663.48	161.51	229.34	161.61	229.34	160.44	229.34	160.06	229.33	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	0.00	0.00%	-1.55	-0.96%	-0.01	0.00%
3586.97	161.51	229.24	161.61	229.24	160.44	229.24	160.06	229.23	0.1	0.06%	0.00	0.00%	-1.17	-0.72%	0.00	0.00%	-1.55	-0.96%	-0.01	0.00%
C																				
3514.84	170.72	229.22	170.82	229.22	170.2	229.21	169.83	229.21	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.01	0.00%
3443.92	170.72	229.19	170.82	229.19	170.2	229.18	169.83	229.18	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.01	0.00%
3400.75	170.72	229.16	170.82	229.16	170.2	229.16	169.83	229.15	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
3353.9	170.72	229.13	170.82	229.13	170.2	229.13	169.83	229.12	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
3347.71	170.72	229.1	170.82	229.1	170.2	229.1	169.83	229.09	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
3328.11	170.72	228.36	170.82	228.36	170.2	228.36	169.83	228.36	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	0.00	0.00%
3322.34	170.72	227.81	170.82	227.81	170.2	227.81	169.83	227.8	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
3313.99	170.72	227.76	170.82	227.76	170.2	227.76	169.83	227.76	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	0.00	0.00%
3227.46	170.72	227.95	170.82	227.95	170.2	227.94	169.83	227.94	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.01	0.00%

	TRCA Existing		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
3162.11	170.72	227.44	170.82	227.44	170.2	227.44	169.83	227.44	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	0.00	0.00%
3085.3	170.72	227.53	170.82	227.54	170.2	227.54	169.83	227.53	0.1	0.06%	0.01	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
3010.28	170.72	227.13	170.82	227.13	170.2	227.14	169.83	227.13	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.01	0.00%	-0.99	-0.58%	0.00	0.00%
2965.65	170.72	227.06	170.82	227.06	170.2	227.07	169.83	227.05	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.01	0.00%	-0.99	-0.58%	-0.01	0.00%
2860.3	170.72	227.19	170.82	227.19	170.2	227.19	169.83	227.18	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2762.96	170.72	227.16	170.82	227.16	170.2	227.17	169.83	227.15	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.01	0.00%	-0.99	-0.58%	-0.01	0.00%
2705.62	170.72	227.15	170.82	227.15	170.2	227.15	169.83	227.14	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2630.45	170.72	227.12	170.82	227.13	170.2	227.13	169.83	227.12	0.1	0.06%	0.01	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2552.07	170.72	227.04	170.82	227.04	170.2	227.04	169.83	227.03	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2506.12	170.72	227.07	170.82	227.08	170.2	227.08	169.83	227.07	0.1	0.06%	0.01	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2451.34	170.72	227.06	170.82	227.07	170.2	227.07	169.83	227.06	0.1	0.06%	0.01	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2372.65	170.72	227.01	170.82	227.02	170.2	227.02	169.83	227.01	0.1	0.06%	0.01	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2326.52	170.72	227.01	170.82	227.01	170.2	227.02	169.83	227.01	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.01	0.00%	-0.99	-0.58%	0.00	0.00%
2203.16	170.72	226.99	170.82	226.99	170.2	226.99	169.83	226.98	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2193.73	170.72	226.98	170.82	226.98	170.2	226.99	169.83	226.98	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.01	0.00%	-0.99	-0.58%	0.00	0.00%
2155.25	170.72	224.68	170.82	224.69	170.2	224.68	169.83	224.67	0.1	0.06%	0.01	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.02	-0.01%
2142.71	170.72	224	170.82	224	170.2	223.99	169.83	223.99	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.01	0.00%
2099.8	170.72	223.77	170.82	223.77	170.2	223.77	169.83	223.76	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
2026.97	170.72	223.13	170.82	223.13	170.2	223.13	169.83	223.13	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	0.00	0.00%
1916.7	170.72	222.73	170.82	222.73	170.2	222.72	169.83	222.71	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.02	-0.01%
1810.91	170.72	222.5	170.82	222.5	170.2	222.49	169.83	222.48	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.02	-0.01%
1669.68	170.72	221.44	170.82	221.45	170.2	221.44	169.83	221.47	0.1	0.06%	0.01	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	0.02	0.01%
1604.17	170.72	221.39	170.82	221.39	170.2	221.39	169.83	221.38	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	-0.01	0.00%
1444.02	170.72	220.68	170.82	220.68	170.2	220.67	169.83	220.66	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.02	-0.01%
1370.51	170.72	220.07	170.82	220.07	170.2	220.07	169.83	220.07	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	0.00	0.00%
1220.66	170.72	219.45	170.82	219.45	170.2	219.44	169.83	219.44	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.01	0.00%
1191.49	170.72	219.36	170.82	219.36	170.2	219.36	169.83	219.36	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	0.00	0.00%
1172.51	170.72	219.33	170.82	219.33	170.2	219.33	169.83	219.33	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	0.00	0.00%
1161.98	170.72	219.26	170.82	219.26	170.2	219.26	169.83	219.26	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	0.00	0.00%	-0.99	-0.58%	0.00	0.00%
1156.51	170.72	219.27	170.82	219.27	170.2	219.26	169.83	219.26	0.1	0.06%	0.00	0.00%	-0.62	-0.36%	-0.01	0.00%	-0.99	-0.58%	-0.01	0.00%
1098.91	282.6	219.19	282.72	219.19	281.64	219.19	281.36	219.19	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
928.99	282.6	218.56	282.72	218.56	281.64	218.56	281.36	218.55	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	-0.01	0.00%
732	282.6	218.17	282.72	218.17	281.64	218.17	281.36	218.17	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
549.97	282.6	217.84	282.72	217.84	281.64	217.83	281.36	217.83	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%
485.47	282.6	217.72	282.72	217.72	281.64	217.72	281.36	217.72	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
377.88	282.6	217.68	282.72	217.68	281.64	217.67	281.36	217.67	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%
305.08	282.6	217.6	282.72	217.6	281.64	217.6	281.36	217.6	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
274.22	282.6	217.38	282.72	217.38	281.64	217.37	281.36	217.37	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%
232.9	282.6	217.36	282.72	217.37	281.64	217.36	281.36	217.36	0.12	0.04%	0.01	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%
195.78	282.6	217.34	282.72	217.34	281.64	217.34	281.36	217.34	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
153.24	282.6	217.35	282.72	217.35	281.64	217.34	281.36	217.34	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%
135.63	282.6	217.34	282.72	217.34	281.64	217.33	281.36	217.33	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%
117.58	282.6	217.34	282.72	217.34	281.64	217.33	281.36	217.33	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%

	TRCA Existing		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
95.84	282.6	217.33	282.72	217.34	281.64	217.33	281.36	217.33	0.12	0.04%	0.01	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%
89.86	282.6	217.33	282.72	217.33	281.64	217.33	281.36	217.33	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
7.5	282.6	217.31	282.72	217.31	281.64	217.31	281.36	217.31	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
-84.15	282.6	217.25	282.72	217.25	281.64	217.25	281.36	217.25	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
-94.72	282.6	217.27	282.72	217.27	281.64	217.27	281.36	217.26	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	-0.01	0.00%
-130.5	282.6	217.22	282.72	217.23	281.64	217.22	281.36	217.22	0.12	0.04%	0.01	0.00%	-1.08	-0.38%	-0.01	0.00%	-1.36	-0.48%	-0.01	0.00%
-155.98	282.6	215.28	282.72	215.28	281.64	215.28	281.36	215.27	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	-0.01	0.00%
-202.08	282.6	215.08	282.72	215.08	281.64	215.08	281.36	215.07	0.12	0.04%	0.00	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	-0.01	0.00%
-298	282.6	215.06	282.72	215.05	281.64	215.05	281.36	215.05	0.12	0.04%	-0.01	0.00%	-1.08	-0.38%	0.00	0.00%	-1.36	-0.48%	0.00	0.00%
D																				
1756	287.13	215.11	287.01	215.11	286.52	215.11	286.26	215.11	-0.12	-0.04%	0.00	0.00%	-0.49	-0.17%	0.00	0.00%	-0.75	-0.26%	0.00	0.00%
1673	287.13	213.55	287.01	213.55	286.52	213.54	286.26	213.53	-0.12	-0.04%	0.00	0.00%	-0.49	-0.17%	-0.01	0.00%	-0.75	-0.26%	-0.02	-0.01%
1647	287.13	213.29	287.01	213.29	286.52	213.29	286.26	213.29	-0.12	-0.04%	0.00	0.00%	-0.49	-0.17%	0.00	0.00%	-0.75	-0.26%	0.00	0.00%
1502	287.13	212.57	287.01	212.57	286.52	212.56	286.26	212.55	-0.12	-0.04%	0.00	0.00%	-0.49	-0.17%	-0.01	0.00%	-0.75	-0.26%	-0.02	-0.01%
E																				
1402	298.89	212.25	299.35	212.25	298.13	212.24	295.86	212.24	0.46	0.15%	0.00	0.00%	-1.22	-0.41%	-0.01	0.00%	-3.49	-1.17%	-0.01	0.00%
1214	298.89	212.04	299.35	212.04	298.13	212.04	295.86	212.03	0.46	0.15%	0.00	0.00%	-1.22	-0.41%	0.00	0.00%	-3.49	-1.17%	-0.01	0.00%
1157	298.89	211.98	299.35	211.99	298.13	211.98	295.86	211.97	0.46	0.15%	0.01	0.00%	-1.22	-0.41%	-0.01	0.00%	-3.49	-1.17%	-0.02	-0.01%
1127	298.89	211.98	299.35	211.99	298.13	211.98	295.86	211.97	0.46	0.15%	0.01	0.00%	-1.22	-0.41%	-0.01	0.00%	-3.49	-1.17%	-0.02	-0.01%
1102	298.89	211.96	299.35	211.97	298.13	211.96	295.86	211.95	0.46	0.15%	0.01	0.00%	-1.22	-0.41%	-0.01	0.00%	-3.49	-1.17%	-0.02	-0.01%
1092	298.89	211.97	299.35	211.97	298.13	211.96	295.86	211.95	0.46	0.15%	0.00	0.00%	-1.22	-0.41%	-0.01	0.00%	-3.49	-1.17%	-0.02	-0.01%
1041	298.89	211.89	299.35	211.89	298.13	211.89	295.86	211.88	0.46	0.15%	0.00	0.00%	-1.22	-0.41%	0.00	0.00%	-3.49	-1.17%	-0.01	0.00%
1016	298.89	211.83	299.35	211.83	298.13	211.83	295.86	211.82	0.46	0.15%	0.00	0.00%	-1.22	-0.41%	0.00	0.00%	-3.49	-1.17%	-0.01	0.00%
1000	298.89	211.4	299.35	211.4	298.13	211.4	295.86	211.4	0.46	0.15%	0.00	0.00%	-1.22	-0.41%	0.00	0.00%	-3.49	-1.17%	0.00	0.00%
985	298.89	211.46	299.35	211.46	298.13	211.46	295.86	211.46	0.46	0.15%	0.00	0.00%	-1.22	-0.41%	0.00	0.00%	-3.49	-1.17%	0.00	0.00%
915	298.89	211.45	299.35	211.45	298.13	211.45	295.86	211.45	0.46	0.15%	0.00	0.00%	-1.22	-0.41%	0.00	0.00%	-3.49	-1.17%	0.00	0.00%
724	299.43	211.43	299.39	211.43	298.01	211.43	295.83	211.43	-0.04	-0.01%	0.00	0.00%	-1.38	-0.46%	0.00	0.00%	-3.56	-1.19%	0.00	0.00%
ColdCrkWestTrbB																				
A																				
981.64	5.13	259.25	2.41	259.05	1.74	258.98	1.74	258.98	-2.72	-53.02%	-0.20	0.08%	-0.67	-27.80%	-0.07	-0.03%	-0.67	-27.80%	-0.07	-0.03%
945.64	5.13	258.96	2.41	258.82	1.74	258.77	1.74	258.77	-2.72	-53.02%	-0.14	0.05%	-0.67	-27.80%	-0.05	-0.02%	-0.67	-27.80%	-0.05	-0.02%
919.87	5.13	258.72	2.41	258.57	1.74	258.53	1.74	258.53	-2.72	-53.02%	-0.15	0.06%	-0.67	-27.80%	-0.04	-0.02%	-0.67	-27.80%	-0.04	-0.02%
884.32	5.13	258.34	2.41	258.21	1.74	258.16	1.74	258.16	-2.72	-53.02%	-0.13	0.05%	-0.67	-27.80%	-0.05	-0.02%	-0.67	-27.80%	-0.05	-0.02%
849.56	5.13	258.01	2.41	257.85	1.74	257.8	1.74	257.8	-2.72	-53.02%	-0.16	0.06%	-0.67	-27.80%	-0.05	-0.02%	-0.67	-27.80%	-0.05	-0.02%
806.16	5.13	257.55	2.41	257.41	1.74	257.36	1.74	257.36	-2.72	-53.02%	-0.14	0.05%	-0.67	-27.80%	-0.05	-0.02%	-0.67	-27.80%	-0.05	-0.02%
770.97	5.13	257.11	2.41	257	1.74	256.97	1.74	256.97	-2.72	-53.02%	-0.11	0.04%	-0.67	-27.80%	-0.03	-0.01%	-0.67	-27.80%	-0.03	-0.01%
739.57	5.13	256.96	2.41	256.81	1.74	256.76	1.74	256.76	-2.72	-53.02%	-0.15	0.06%	-0.67	-27.80%	-0.05	-0.02%	-0.67	-27.80%	-0.05	-0.02%
709.09	5.13	256.84	2.41	256.67	1.74	256.62	1.74	256.62	-2.72	-53.02%	-0.17	0.07%	-0.67	-27.80%	-0.05	-0.02%	-0.67	-27.80%	-0.05	-0.02%
671.44	5.13	256.64	2.41	256.49	1.74	256.44	1.74	256.44	-2.72	-53.02%	-0.15	0.06%	-0.67	-27.80%	-0.05	-0.02%	-0.67	-27.80%	-0.05	-0.02%
652.51	5.13	256.35	2.41	256.25	1.74	256.19	1.74	256.19	-2.72	-53.02%	-0.10	0.04%	-0.67	-27.80%	-0.06	-0.02%	-0.67	-27.80%	-0.06	-0.02%
624.08	5.13	255.71	2.41	255.61	1.74	255.57	1.74	255.57	-2.72	-53.02%	-0.10	0.04%	-0.67	-27.80%	-0.04	-0.02%	-0.67	-27.80%	-0.04	-0.02%
607.56	5.13	254.24	3.08	254.05	2.33	253.97	2.33	253.97	-2.05	-39.96%	-0.19	0.07%	-0.75	-24.35%	-0.08	-0.03%	-0.75	-24.35%	-0.08	-0.03%
568.74	5.13	251.96	3.08	251.77	2.33	251.69	2.33	251.69	-2.05	-39.96%	-0.19	0.08%	-0.75	-24.35%	-0.08	-0.03%	-0.75	-24.35%	-0.08	-0.03%

	TRCA Existing		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)				
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation		
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A]/[A]	[D - B]	[D - B]/[B]	[E - C]	[E - C]/[C]	[F - D]	[F - D]/[D]	[G - C]	[G - C]/[C]	[H - D]	[H - D]/[D]	
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%	
533.8	5.13	250.67	3.08	250.5	2.33	250.42	2.33	250.42	-2.05	-39.96%	-0.17	0.07%	-0.75	-24.35%	-0.08	-0.03%	-0.75	-24.35%	-0.08	-0.03%	
487.47	5.13	248.61	3.08	248.4	2.33	248.31	2.33	248.31	-2.05	-39.96%	-0.21	0.08%	-0.75	-24.35%	-0.09	-0.04%	-0.75	-24.35%	-0.09	-0.04%	
443.23	5.13	246.95	3.08	246.76	2.33	246.67	2.33	246.67	-2.05	-39.96%	-0.19	0.08%	-0.75	-24.35%	-0.09	-0.04%	-0.75	-24.35%	-0.09	-0.04%	
400.77	5.13	244.86	3.08	244.7	2.33	244.62	2.33	244.62	-2.05	-39.96%	-0.16	0.07%	-0.75	-24.35%	-0.08	-0.03%	-0.75	-24.35%	-0.08	-0.03%	
361.2	5.13	242.8	3.08	242.65	2.33	242.59	2.33	242.59	-2.05	-39.96%	-0.15	0.06%	-0.75	-24.35%	-0.06	-0.02%	-0.75	-24.35%	-0.06	-0.02%	
329.49	5.13	241.06	3.08	240.82	2.33	240.72	2.33	240.72	-2.05	-39.96%	-0.24	0.10%	-0.75	-24.35%	-0.10	-0.04%	-0.75	-24.35%	-0.10	-0.04%	
307.17	5.13	239.87	3.08	239.66	2.33	239.57	2.33	239.57	-2.05	-39.96%	-0.21	0.09%	-0.75	-24.35%	-0.09	-0.04%	-0.75	-24.35%	-0.09	-0.04%	
280.02	5.13	238.83	3.08	238.62	2.33	238.53	2.33	238.53	-2.05	-39.96%	-0.21	0.09%	-0.75	-24.35%	-0.09	-0.04%	-0.75	-24.35%	-0.09	-0.04%	
232.99	5.13	236.89	3.08	236.78	2.33	236.73	2.33	236.73	-2.05	-39.96%	-0.11	0.05%	-0.75	-24.35%	-0.05	-0.02%	-0.75	-24.35%	-0.05	-0.02%	
B (Newly Modelled Tributary)																					
1004			2.19	256.74	3.48	256.88	3.21	256.86					1.29	58.90%	0.14	0.05%	1.02	46.58%	0.12	0.05%	
948			2.19	252.95	3.48	253.02	3.21	253					1.29	58.90%	0.07	0.03%	1.02	46.58%	0.05	0.02%	
926			2.19	250.72	3.48	250.88	3.21	250.85					1.29	58.90%	0.16	0.06%	1.02	46.58%	0.13	0.05%	
901			2.19	249.74	3.48	249.86	3.21	249.84					1.29	58.90%	0.12	0.05%	1.02	46.58%	0.10	0.04%	
861			2.19	247.5	3.48	247.58	3.21	247.56					1.29	58.90%	0.08	0.03%	1.02	46.58%	0.06	0.02%	
846			2.19	246.72	3.48	246.77	3.21	246.76					1.29	58.90%	0.05	0.02%	1.02	46.58%	0.04	0.02%	
827			2.19	245.51	3.48	245.63	3.21	245.61					1.29	58.90%	0.12	0.05%	1.02	46.58%	0.10	0.04%	
806			2.19	244.52	3.48	244.65	3.21	244.62					1.29	58.90%	0.13	0.05%	1.02	46.58%	0.10	0.04%	
779			2.19	243.22	3.48	243.29	3.21	243.28					1.29	58.90%	0.07	0.03%	1.02	46.58%	0.06	0.02%	
753			2.19	241.06	3.48	241.18	3.21	241.16					1.29	58.90%	0.12	0.05%	1.02	46.58%	0.10	0.04%	
728			2.19	239.54	3.48	239.68	3.21	239.66					1.29	58.90%	0.14	0.06%	1.02	46.58%	0.12	0.05%	
693			2.19	237.75	3.48	237.82	3.21	237.8					1.29	58.90%	0.07	0.03%	1.02	46.58%	0.05	0.02%	
C																					
185.83	5.13	234.92	5.79	234.97	5.88	234.98	6.12	235	0.66	12.87%	0.05	-0.02%	0.09	1.55%	0.01	0.00%	0.33	5.70%	0.03	0.01%	
128.69	5.13	232.96	5.79	233.04	5.88	233.05	6.12	233.07	0.66	12.87%	0.08	-0.03%	0.09	1.55%	0.01	0.00%	0.33	5.70%	0.03	0.01%	
91.9	5.13	231.12	5.79	231.16	5.88	231.17	6.12	231.18	0.66	12.87%	0.04	-0.02%	0.09	1.55%	0.01	0.00%	0.33	5.70%	0.02	0.01%	
53.37	5.13	231.19	5.79	231.19	5.88	231.18	6.12	231.18	0.66	12.87%	0.00	0.00%	0.09	1.55%	-0.01	0.00%	0.33	5.70%	-0.01	0.00%	
ColdCrkWestTrbc																					
A																					
2317.44	5.4	267.96	5.33	267.95	5.33	267.95	5.33	267.95	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
2258.61	5.4	267.95	5.33	267.94	5.33	267.94	5.33	267.94	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
2195.39	5.4	267.94	5.33	267.93	5.33	267.93	5.33	267.93	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
2107.05	5.4	267.85	5.33	267.85	5.33	267.85	5.33	267.85	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
2081.85	5.4	267.62	5.33	267.61	5.33	267.61	5.33	267.61	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
2052.86	5.4	267.15	5.33	267.15	5.33	267.15	5.33	267.15	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
2026.48	5.4	267.1	5.33	267.1	5.33	267.1	5.33	267.1	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
1945.21	5.4	266.63	5.33	266.63	5.33	266.63	5.33	266.63	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
1903.63	5.4	265.52	5.33	265.51	5.33	265.51	5.33	265.51	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
1832.43	5.4	263.68	5.33	263.68	5.33	263.68	5.33	263.68	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
1779.6	5.4	263.05	5.33	263.04	5.33	263.04	5.33	263.04	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
1719.44	5.4	262.9	5.33	262.89	5.33	262.89	5.33	262.89	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
1691.94	5.4	262.89	5.33	262.88	5.33	262.88	5.33	262.88	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	
1659.7	5.4	262.75	5.33	262.75	5.33	262.75	5.33	262.75	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%	

	TRCA Existing		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
1609.61	5.4	262.49	5.33	262.49	5.33	262.49	5.33	262.49	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1534.1	5.4	261.65	5.33	261.64	5.33	261.64	5.33	261.64	-0.07	-1.30%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1477.72	5.4	261.17	5.33	261.17	5.33	261.17	5.33	261.17	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1379.36	5.4	260.43	5.33	260.43	5.33	260.43	5.33	260.43	-0.07	-1.30%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1324.43	9.01	258.3	8.55	258.29	8.55	258.29	8.55	258.29	-0.46	-5.11%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1232.51	9.01	258.02	8.55	258	8.55	258	8.55	258	-0.46	-5.11%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1113.91	9.01	257.92	8.55	257.9	8.55	257.9	8.55	257.9	-0.46	-5.11%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1059.21	9.01	257.92	8.55	257.9	8.55	257.9	8.55	257.9	-0.46	-5.11%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1027.62	9.01	257.9	8.55	257.88	8.55	257.88	8.55	257.88	-0.46	-5.11%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
999.54	9.01	257.64	8.55	257.61	8.55	257.61	8.55	257.61	-0.46	-5.11%	-0.03	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
931.01	9.01	257.35	8.55	257.33	8.55	257.33	8.55	257.33	-0.46	-5.11%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
864.2	9.01	257.13	8.55	257.11	8.55	257.11	8.55	257.11	-0.46	-5.11%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
842.55	9.01	256.82	8.55	256.8	8.55	256.8	8.55	256.8	-0.46	-5.11%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
734.54	9.01	256.59	8.55	256.59	8.55	256.59	8.55	256.59	-0.46	-5.11%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
709.85	9.01	256.59	8.55	256.59	8.55	256.59	8.55	256.59	-0.46	-5.11%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
655.7	9.01	256.58	8.55	256.58	8.55	256.58	8.55	256.58	-0.46	-5.11%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
621.5	9.85	256.58	9.76	256.58	9.76	256.58	9.76	256.58	-0.09	-0.91%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
605.12	9.85	256.58	9.76	256.58	9.76	256.58	9.76	256.58	-0.09	-0.91%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
581.36	9.85	254.76	9.76	254.75	9.76	254.75	9.76	254.75	-0.09	-0.91%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
559.18	9.85	254.39	9.76	254.38	9.76	254.38	9.76	254.38	-0.09	-0.91%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
513.56	9.85	253.73	9.76	253.73	9.76	253.73	9.76	253.73	-0.09	-0.91%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
424.41	9.85	252.76	9.76	252.75	9.76	252.75	9.76	252.75	-0.09	-0.91%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
376.8	9.85	252.14	9.76	252.13	9.76	252.13	9.76	252.13	-0.09	-0.91%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
330.55	9.85	251.42	9.76	251.4	9.76	251.4	9.76	251.4	-0.09	-0.91%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
262.72	9.85	249.34	9.76	249.34	9.76	249.34	9.76	249.34	-0.09	-0.91%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
221.51	9.85	248.2	9.76	248.2	9.76	248.2	9.76	248.2	-0.09	-0.91%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
179.18	9.85	247.07	9.76	247.06	9.76	247.06	9.76	247.06	-0.09	-0.91%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
150.14	9.85	246.11	9.76	246.11	9.76	246.11	9.76	246.11	-0.09	-0.91%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
68.99	9.85	244.88	9.76	244.88	9.76	244.88	9.76	244.88	-0.09	-0.91%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
24.72	9.85	244.21	9.76	244.21	9.76	244.21	9.76	244.21	-0.09	-0.91%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
B																				
779.11	15.99	243.89	15.5	243.87	15.5	243.87	15.5	243.87	-0.49	-3.06%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
754.74	15.99	243.4	15.5	243.39	15.5	243.39	15.5	243.39	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
709.77	15.99	242.85	15.5	242.84	15.5	242.84	15.5	242.84	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
672.39	15.99	242.7	15.5	242.68	15.5	242.68	15.5	242.68	-0.49	-3.06%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
630.06	15.99	242.24	15.5	242.23	15.5	242.23	15.5	242.23	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
570.96	15.99	241.17	15.5	241.16	15.5	241.16	15.5	241.16	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
515.77	15.99	240.39	15.5	240.38	15.5	240.38	15.5	240.38	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
475.95	15.99	239.71	15.5	239.71	15.5	239.71	15.5	239.71	-0.49	-3.06%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
441.74	15.99	239.2	15.5	239.19	15.5	239.19	15.5	239.19	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
390.05	15.99	238.32	15.5	238.31	15.5	238.31	15.5	238.31	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
357.57	15.99	237.77	15.5	237.76	15.5	237.76	15.5	237.76	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
317.27	15.99	237.23	15.5	237.22	15.5	237.22	15.5	237.22	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%

	TRCA Existing		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
264.46	15.99	236.03	15.5	236.03	15.5	236.03	15.5	236.03	-0.49	-3.06%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
237.04	15.99	235.56	15.5	235.55	15.5	235.55	15.5	235.55	-0.49	-3.06%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
208.2	15.99	234.97	15.5	234.97	15.5	234.97	15.5	234.97	-0.49	-3.06%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
174.96	15.99	233.59	15.5	233.57	15.5	233.57	15.5	233.57	-0.49	-3.06%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
83.84	15.99	233.69	15.5	233.69	15.5	233.69	15.5	233.69	-0.49	-3.06%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
MainHumberTrbA																				
A																				
4822.04	4.32	264.06	4.03	264.04	4.03	264.04	4.51	264.07	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.03	0.01%
4783.59	4.32	263.52	4.03	263.51	4.03	263.51	4.51	263.53	-0.29	-6.71%	-0.01	0.00%	0	0.00%	0.00	0.00%	0.48	11.91%	0.02	0.01%
4731.68	4.32	262.58	4.03	262.58	4.03	262.58	4.51	262.59	-0.29	-6.71%	0.00	0.00%	0	0.00%	0.00	0.00%	0.48	11.91%	0.01	0.00%
4652.11	4.32	262.53	4.03	262.5	4.03	262.5	4.51	262.54	-0.29	-6.71%	-0.03	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4592.65	4.32	262.52	4.03	262.5	4.03	262.5	4.51	262.54	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4574	4.32	262.52	4.03	262.5	4.03	262.5	4.51	262.54	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4540	4.32	262.52	4.03	262.5	4.03	262.5	4.51	262.54	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4515.64	4.32	262.32	4.03	262.3	4.03	262.3	4.51	262.34	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4460.59	4.32	262.3	4.03	262.28	4.03	262.28	4.51	262.32	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4407.62	4.32	262.24	4.03	262.22	4.03	262.22	4.51	262.26	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4354.33	4.32	262.04	4.03	262.02	4.03	262.02	4.51	262.06	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4322.62	4.32	261.94	4.03	261.92	4.03	261.92	4.51	261.96	-0.29	-6.71%	-0.02	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4293.51	4.32	261.68	4.03	261.67	4.03	261.67	4.51	261.69	-0.29	-6.71%	-0.01	0.00%	0	0.00%	0.00	0.00%	0.48	11.91%	0.02	0.01%
4265.3	4.32	261.37	4.03	261.34	4.03	261.34	4.51	261.37	-0.29	-6.71%	-0.03	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.03	0.01%
4240.34	4.32	260.53	4.03	260.5	4.03	260.5	4.51	260.54	-0.29	-6.71%	-0.03	0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.04	0.02%
4181.11	4.32	260.3	4.03	260.32	4.03	260.32	4.51	260.38	-0.29	-6.71%	0.02	-0.01%	0	0.00%	0.00	0.00%	0.48	11.91%	0.06	0.02%
4121.04	8.91	259.76	10.1	259.79	10.22	259.79	12.95	259.85	1.19	13.36%	0.03	-0.01%	0.12	1.19%	0.00	0.00%	2.85	28.22%	0.06	0.02%
4055.36	8.91	259.35	10.1	259.4	10.22	259.4	12.95	259.5	1.19	13.36%	0.05	-0.02%	0.12	1.19%	0.00	0.00%	2.85	28.22%	0.10	0.04%
4004.48	8.91	259.35	10.1	259.39	10.22	259.4	12.95	259.5	1.19	13.36%	0.04	-0.02%	0.12	1.19%	0.01	0.00%	2.85	28.22%	0.11	0.04%
3947.08	8.91	259.35	10.1	259.39	10.22	259.4	12.95	259.5	1.19	13.36%	0.04	-0.02%	0.12	1.19%	0.01	0.00%	2.85	28.22%	0.11	0.04%
3869.46	8.91	259.34	10.1	259.39	10.22	259.39	12.95	259.49	1.19	13.36%	0.05	-0.02%	0.12	1.19%	0.00	0.00%	2.85	28.22%	0.10	0.04%
3837.47	8.91	259.14	10.1	259.17	10.22	259.17	12.95	259.23	1.19	13.36%	0.03	-0.01%	0.12	1.19%	0.00	0.00%	2.85	28.22%	0.06	0.02%
3758.91	8.91	258.92	10.1	258.97	10.22	258.97	12.95	259.07	1.19	13.36%	0.05	-0.02%	0.12	1.19%	0.00	0.00%	2.85	28.22%	0.10	0.04%
3700.91	8.91	258.85	10.1	258.89	10.22	258.89	12.95	258.98	1.19	13.36%	0.04	-0.02%	0.12	1.19%	0.00	0.00%	2.85	28.22%	0.09	0.03%
3650.13	8.91	258.72	10.1	258.75	10.22	258.76	12.95	258.84	1.19	13.36%	0.03	-0.01%	0.12	1.19%	0.01	0.00%	2.85	28.22%	0.09	0.03%
3587.5	8.91	258.49	10.1	258.53	10.22	258.52	12.95	258.61	1.19	13.36%	0.04	-0.02%	0.12	1.19%	-0.01	0.00%	2.85	28.22%	0.08	0.03%
3530.86	8.91	258.13	10.1	258.16	10.22	258.22	12.95	258.23	1.19	13.36%	0.03	-0.01%	0.12	1.19%	0.06	0.02%	2.85	28.22%	0.07	0.03%
3486.25	8.91	257.84	10.1	257.88	10.22	257.73	12.95	257.99	1.19	13.36%	0.04	-0.02%	0.12	1.19%	-0.15	-0.06%	2.85	28.22%	0.11	0.04%
3463	8.91	257.55	10.1	257.56	10.22	257.74	12.95	258	1.19	13.36%	0.01	0.00%	0.12	1.19%	0.18	0.07%	2.85	28.22%	0.44	0.17%
3444	8.91	257.13	10.1	257.31	10.22	257.57	12.95	258	1.19	13.36%	0.18	-0.07%	0.12	1.19%	0.26	0.10%	2.85	28.22%	0.69	0.27%
3422	8.91	257.08	10.1	257.29	10.22	257.47	12.95	258	1.19	13.36%	0.21	-0.08%	0.12	1.19%	0.18	0.07%	2.85	28.22%	0.71	0.28%
3393	8.91	257.06	10.1	257.28	10.22	257.46	12.95	258	1.19	13.36%	0.22	-0.09%	0.12	1.19%	0.18	0.07%	2.85	28.22%	0.72	0.28%
3377.5	8.91	257.05	10.1	257.27	10.22	257.45	12.95	258	1.19	13.36%	0.22	-0.09%	0.12	1.19%	0.18	0.07%	2.85	28.22%	0.73	0.28%
3359.36	8.91	257.05	10.1	257.27	10.22	257.45	12.95	258	1.19	13.36%	0.22	-0.09%	0.12	1.19%	0.18	0.07%	2.85	28.22%	0.73	0.28%
3339.67	8.91	257.05	10.1	257.27	10.22	257.45	12.95	257.99	1.19	13.36%	0.22	-0.09%	0.12	1.19%	0.18	0.07%	2.85	28.22%	0.72	0.28%
3321.23	8.91	257.05	10.1	257.27	10.22	257.45	12.95	257.99	1.19	13.36%	0.22	-0.09%	0.12	1.19%	0.18	0.07%	2.85	28.22%	0.72	0.28%

	TRCA Existing		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
3287.37	8.91	257.05	10.1	257.27	10.22	257.45	12.95	257.99	1.19	13.36%	0.22	-0.09%	0.12	1.19%	0.18	0.07%	2.85	28.22%	0.72	0.28%
3269.41	8.91	257.05	10.1	257.27	10.22	257.44	12.95	257.99	1.19	13.36%	0.22	-0.09%	0.12	1.19%	0.17	0.07%	2.85	28.22%	0.72	0.28%
3188.65	16.15	257	16.99	257.23	17.62	257.4	20.72	257.99	0.84	5.20%	0.23	-0.09%	0.63	3.71%	0.17	0.07%	3.73	21.95%	0.76	0.30%
3123.12	16.15	254.06	16.99	254.08	17.62	254.1	20.72	255.16	0.84	5.20%	0.02	-0.01%	0.63	3.71%	0.02	0.01%	3.73	21.95%	1.08	0.43%
3107.01	16.15	253.77	16.99	254.02	17.62	254.21	20.72	255.2	0.84	5.20%	0.25	-0.10%	0.63	3.71%	0.19	0.07%	3.73	21.95%	1.18	0.46%
3043.25	16.15	253.78	16.99	254.03	17.62	254.21	20.72	255.2	0.84	5.20%	0.25	-0.10%	0.63	3.71%	0.18	0.07%	3.73	21.95%	1.17	0.46%
2991.29	16.15	253.78	16.99	254.03	17.62	254.21	20.72	255.2	0.84	5.20%	0.25	-0.10%	0.63	3.71%	0.18	0.07%	3.73	21.95%	1.17	0.46%
2930.14	16.15	253.78	16.99	254.03	17.62	254.21	20.72	255.2	0.84	5.20%	0.25	-0.10%	0.63	3.71%	0.18	0.07%	3.73	21.95%	1.17	0.46%
2887.5	16.15	253.78	16.99	254.03	17.62	254.21	20.72	255.2	0.84	5.20%	0.25	-0.10%	0.63	3.71%	0.18	0.07%	3.73	21.95%	1.17	0.46%
2802.56	19.44	253.78	20.45	254.02	21.21	254.21	24.95	255.2	1.01	5.20%	0.24	-0.09%	0.76	3.72%	0.19	0.07%	4.5	22.00%	1.18	0.46%
2775.8	19.44	253.78	20.45	254.02	21.21	254.21	24.95	255.2	1.01	5.20%	0.24	-0.09%	0.76	3.72%	0.19	0.07%	4.5	22.00%	1.18	0.46%
2760.75	19.44	253.74	20.45	253.99	21.21	254.18	24.95	255.2	1.01	5.20%	0.25	-0.10%	0.76	3.72%	0.19	0.07%	4.5	22.00%	1.21	0.48%
2706.72	19.44	250.94	20.45	250.96	21.21	250.98	24.95	251.08	1.01	5.20%	0.02	-0.01%	0.76	3.72%	0.02	0.01%	4.5	22.00%	0.12	0.05%
2688.78	19.44	250.14	20.45	250.16	21.21	250.17	24.95	250.23	1.01	5.20%	0.02	-0.01%	0.76	3.72%	0.01	0.00%	4.5	22.00%	0.07	0.03%
2611.59	19.44	248.56	20.45	248.57	21.21	248.58	24.95	249.09	1.01	5.20%	0.01	0.00%	0.76	3.72%	0.01	0.00%	4.5	22.00%	0.52	0.21%
2560.8	19.44	248.19	20.45	248.21	21.21	248.23	24.95	249.08	1.01	5.20%	0.02	-0.01%	0.76	3.72%	0.02	0.01%	4.5	22.00%	0.87	0.35%
2506.61	19.44	247.9	20.45	247.92	21.21	247.99	24.95	249.07	1.01	5.20%	0.02	-0.01%	0.76	3.72%	0.07	0.03%	4.5	22.00%	1.15	0.46%
2483.51	19.44	247.67	20.45	247.73	21.21	247.89	24.95	249.06	1.01	5.20%	0.06	-0.02%	0.76	3.72%	0.16	0.06%	4.5	22.00%	1.33	0.54%
2452.23	19.44	247.58	20.45	247.66	21.21	247.86	24.95	249.06	1.01	5.20%	0.08	-0.03%	0.76	3.72%	0.20	0.08%	4.5	22.00%	1.40	0.57%
2401.32	19.44	247.4	20.45	247.53	21.21	247.78	24.95	249.05	1.01	5.20%	0.13	-0.05%	0.76	3.72%	0.25	0.10%	4.5	22.00%	1.52	0.61%
2367.56	19.44	247.36	20.45	247.51	21.21	247.77	24.95	249.05	1.01	5.20%	0.15	-0.06%	0.76	3.72%	0.26	0.11%	4.5	22.00%	1.54	0.62%
2338.9	19.44	247.36	20.45	247.51	21.21	247.77	24.95	249.05	1.01	5.20%	0.15	-0.06%	0.76	3.72%	0.26	0.11%	4.5	22.00%	1.54	0.62%
2310.58	19.44	247.36	20.45	247.51	21.21	247.77	24.95	249.05	1.01	5.20%	0.15	-0.06%	0.76	3.72%	0.26	0.11%	4.5	22.00%	1.54	0.62%
2264.91	19.44	247.36	20.45	247.5	21.21	247.77	24.95	249.05	1.01	5.20%	0.14	-0.06%	0.76	3.72%	0.27	0.11%	4.5	22.00%	1.55	0.63%
2209.07	19.44	247.36	20.45	247.5	21.21	247.77	24.95	249.05	1.01	5.20%	0.14	-0.06%	0.76	3.72%	0.27	0.11%	4.5	22.00%	1.55	0.63%
2169.34	19.44	247.35	20.45	247.5	21.21	247.77	24.95	249.04	1.01	5.20%	0.15	-0.06%	0.76	3.72%	0.27	0.11%	4.5	22.00%	1.54	0.62%
2156.52	19.44	247.32	20.45	247.46	21.21	247.73	24.95	249.01	1.01	5.20%	0.14	-0.06%	0.76	3.72%	0.27	0.11%	4.5	22.00%	1.55	0.63%
2093.17	22.47	243.61	23.87	243.63	24.91	243.66	29.32	243.77	1.4	6.23%	0.02	-0.01%	1.04	4.36%	0.03	0.01%	5.45	22.83%	0.14	0.06%
2079.21	22.47	243.29	23.87	243.33	24.91	243.35	29.32	243.48	1.4	6.23%	0.04	-0.02%	1.04	4.36%	0.02	0.01%	5.45	22.83%	0.15	0.06%
2055.25	22.47	242.9	23.87	242.95	24.91	242.97	29.32	243.06	1.4	6.23%	0.05	-0.02%	1.04	4.36%	0.02	0.01%	5.45	22.83%	0.11	0.05%
2016.73	22.47	241.84	23.87	241.87	24.91	241.89	29.32	241.99	1.4	6.23%	0.03	-0.01%	1.04	4.36%	0.02	0.01%	5.45	22.83%	0.12	0.05%
1965.37	22.47	241.54	23.87	241.59	24.91	241.61	29.32	241.78	1.4	6.23%	0.05	-0.02%	1.04	4.36%	0.02	0.01%	5.45	22.83%	0.19	0.08%
1917.19	22.47	241.05	23.87	241.05	24.91	241.09	29.32	241.09	1.4	6.23%	0.00	0.00%	1.04	4.36%	0.04	0.02%	5.45	22.83%	0.04	0.02%
1875.03	22.47	240.39	23.87	240.42	24.91	240.45	29.32	240.53	1.4	6.23%	0.03	-0.01%	1.04	4.36%	0.03	0.01%	5.45	22.83%	0.11	0.05%
1862.94	22.47	239.57	23.87	239.59	24.91	239.59	29.32	239.9	1.4	6.23%	0.02	-0.01%	1.04	4.36%	0.00	0.00%	5.45	22.83%	0.31	0.13%
1801.09	24.72	239.01	26.09	239.04	26.91	239.05	30.81	239.12	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.08	0.03%
1765.21	24.72	238.58	26.09	238.61	26.91	238.63	30.81	238.72	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.11	0.05%
1718.91	24.72	237.4	26.09	237.43	26.91	237.44	30.81	237.53	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.10	0.04%
1661.15	24.72	236.8	26.09	236.83	26.91	236.84	30.81	236.89	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.06	0.03%
1612.45	24.72	236.06	26.09	236.07	26.91	236.08	30.81	236.31	1.37	5.54%	0.01	0.00%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.24	0.10%
1568.23	24.72	234.88	26.09	234.91	26.91	234.93	30.81	235.01	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.10	0.04%
1541.88	24.72	234.32	26.09	234.36	26.91	234.39	30.81	234.48	1.37	5.54%	0.04	-0.02%	0.82	3.14%	0.03	0.01%	4.72	18.09%	0.12	0.05%
1489.67	24.72	233.67	26.09	233.71	26.91	233.72	30.81	233.78	1.37	5.54%	0.04	-0.02%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.07	0.03%

	TRCA Existing		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A]/[A]	[D - B]	[D - B]/[B]	[E - C]	[E - C]/[C]	[F - D]	[F - D]/[D]	[G - C]	[G - C]/[C]	[H - D]	[H - D]/[D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
1435.23	24.72	231.55	26.09	231.59	26.91	231.6	30.81	231.69	1.37	5.54%	0.04	-0.02%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.10	0.04%
1380.7	24.72	230.66	26.09	230.72	26.91	230.74	30.81	230.81	1.37	5.54%	0.06	-0.03%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.09	0.04%
1332.54	24.72	229.33	26.09	229.36	26.91	229.36	30.81	229.36	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.00	0.00%	4.72	18.09%	0.00	0.00%
1302.84	24.72	228.14	26.09	228.17	26.91	228.19	30.81	228.26	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.09	0.04%
1263.71	24.72	226.77	26.09	226.8	26.91	226.82	30.81	226.91	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.11	0.05%
1215.31	24.72	225.4	26.09	225.43	26.91	225.45	30.81	225.54	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.11	0.05%
1168.81	24.72	224.29	26.09	224.41	26.91	224.46	30.81	224.6	1.37	5.54%	0.12	-0.05%	0.82	3.14%	0.05	0.02%	4.72	18.09%	0.19	0.08%
1130.29	24.72	223.11	26.09	223.14	26.91	223.17	30.81	223.26	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.03	0.01%	4.72	18.09%	0.12	0.05%
1111.06	24.72	222.72	26.09	222.76	26.91	222.78	30.81	222.9	1.37	5.54%	0.04	-0.02%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.14	0.06%
1084.58	24.72	221.94	26.09	221.96	26.91	221.98	30.81	222.08	1.37	5.54%	0.02	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.12	0.05%
1048.15	24.72	221.1	26.09	221.16	26.91	221.2	30.81	221.32	1.37	5.54%	0.06	-0.03%	0.82	3.14%	0.04	0.02%	4.72	18.09%	0.16	0.07%
1028.59	24.72	220.74	26.09	220.78	26.91	220.81	30.81	220.91	1.37	5.54%	0.04	-0.02%	0.82	3.14%	0.03	0.01%	4.72	18.09%	0.13	0.06%
996.29	24.72	219.99	26.09	220.01	26.91	220.03	30.81	220.1	1.37	5.54%	0.02	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.09	0.04%
965.91	24.72	219.43	26.09	219.45	26.91	219.46	30.81	219.53	1.37	5.54%	0.02	-0.01%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.08	0.04%
908.46	24.72	218.6	26.09	218.64	26.91	218.66	30.81	218.74	1.37	5.54%	0.04	-0.02%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.10	0.05%
879.06	24.72	218.13	26.09	218.17	26.91	218.19	30.81	218.29	1.37	5.54%	0.04	-0.02%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.12	0.06%
847.19	24.72	217.64	26.09	217.64	26.91	217.73	30.81	217.79	1.37	5.54%	0.00	0.00%	0.82	3.14%	0.09	0.04%	4.72	18.09%	0.15	0.07%
820.81	24.72	217.34	26.09	217.35	26.91	217.37	30.81	217.42	1.37	5.54%	0.01	0.00%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.07	0.03%
807.34	24.72	217.11	26.09	217.15	26.91	217.14	30.81	217.18	1.37	5.54%	0.04	-0.02%	0.82	3.14%	-0.01	0.00%	4.72	18.09%	0.03	0.01%
794.25	24.72	216.66	26.09	216.68	26.91	216.69	30.81	216.74	1.37	5.54%	0.02	-0.01%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.06	0.03%
770.45	24.72	216.43	26.09	216.45	26.91	216.47	30.81	216.52	1.37	5.54%	0.02	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.07	0.03%
738	24.72	215.9	26.09	215.92	26.91	215.94	30.81	215.99	1.37	5.54%	0.02	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.07	0.03%
686.51	24.72	215.13	26.09	215.17	26.91	215.18	30.81	215.29	1.37	5.54%	0.04	-0.02%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.12	0.06%
661.93	24.72	214.59	26.09	214.6	26.91	214.6	30.81	214.85	1.37	5.54%	0.01	0.00%	0.82	3.14%	0.00	0.00%	4.72	18.09%	0.25	0.12%
615.04	24.72	213.9	26.09	213.93	26.91	213.95	30.81	214.01	1.37	5.54%	0.03	-0.01%	0.82	3.14%	0.02	0.01%	4.72	18.09%	0.08	0.04%
580.25	24.72	213.54	26.09	213.56	26.91	213.57	30.81	213.61	1.37	5.54%	0.02	-0.01%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.05	0.02%
544.59	24.72	212.95	26.09	212.95	26.91	212.96	30.81	212.99	1.37	5.54%	0.00	0.00%	0.82	3.14%	0.01	0.00%	4.72	18.09%	0.04	0.02%
515.79	24.72	212.84	26.09	212.85	26.91	212.85	30.81	212.85	1.37	5.54%	0.01	0.00%	0.82	3.14%	0.00	0.00%	4.72	18.09%	0.00	0.00%
490.99	24.72	212.84	26.09	212.85	26.91	212.84	30.81	212.85	1.37	5.54%	0.01	0.00%	0.82	3.14%	-0.01	0.00%	4.72	18.09%	0.00	0.00%
454.35	24.72	212.84	26.09	212.84	26.91	212.84	30.81	212.84	1.37	5.54%	0.00	0.00%	0.82	3.14%	0.00	0.00%	4.72	18.09%	0.00	0.00%
325.04	24.72	212.83	26.09	212.84	26.91	212.84	30.81	212.83	1.37	5.54%	0.01	0.00%	0.82	3.14%	0.00	0.00%	4.72	18.09%	-0.01	0.00%
257.06	24.72	212.83	26.09	212.84	26.91	212.83	30.81	212.83	1.37	5.54%	0.01	0.00%	0.82	3.14%	-0.01	0.00%	4.72	18.09%	-0.01	0.00%
151.19	24.72	212.83	26.09	212.83	26.91	212.83	30.81	212.82	1.37	5.54%	0.00	0.00%	0.82	3.14%	0.00	0.00%	4.72	18.09%	-0.01	0.00%

Note:
Cells are highlighted with the change in WSE is greater than an absolute value of 0.02 m

Date: May 29 2025

Mt. Hope 100-Year 6hr AES Downstream Flow and Water Surface Elevation Analysis

	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m ³ /s)	(m)	(m ³ /s)	(m)	(m ³ /s)	(m)	(m ³ /s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
ColdCrkWest																				
A																				
1099.88	17.07	231.96	30.34	232.22	30.34	232.22	30.34	232.22	13.27	77.74%	0.26	-0.11%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
968.77	17.07	231.48	30.34	231.74	30.34	231.74	30.34	231.74	13.27	77.74%	0.26	-0.11%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
907.17	17.07	231.21	30.34	231.5	30.34	231.5	30.34	231.5	13.27	77.74%	0.29	-0.13%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
886.28	17.07	231.12	30.34	231.42	30.34	231.42	30.34	231.42	13.27	77.74%	0.30	-0.13%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
821.09	17.07	230.94	30.34	231.26	30.34	231.26	30.34	231.26	13.27	77.74%	0.32	-0.14%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
754.35	17.07	230.82	30.34	231.15	30.34	231.15	30.34	231.15	13.27	77.74%	0.33	-0.14%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
681.48	17.07	230.67	30.34	231.02	30.34	231.02	30.34	231.02	13.27	77.74%	0.35	-0.15%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
564.22	17.07	230.4	30.34	230.74	30.34	230.74	30.34	230.74	13.27	77.74%	0.34	-0.15%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
532.82	17.07	230.34	30.34	230.68	30.34	230.68	30.34	230.68	13.27	77.74%	0.34	-0.15%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
472.33	17.07	230.15	30.34	230.48	30.34	230.48	30.34	230.48	13.27	77.74%	0.33	-0.14%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
416.11	17.07	230.07	30.34	230.42	30.34	230.42	30.34	230.42	13.27	77.74%	0.35	-0.15%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
361.76	17.07	229.98	30.34	230.34	30.34	230.34	30.34	230.34	13.27	77.74%	0.36	-0.16%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
316.69	17.07	229.8	30.34	230.16	30.34	230.16	30.34	230.16	13.27	77.74%	0.36	-0.16%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
292.48	17.07	229.77	30.34	230.13	30.34	230.13	30.34	230.13	13.27	77.74%	0.36	-0.16%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
232.38	17.07	229.59	30.34	229.97	30.34	229.97	30.34	229.97	13.27	77.74%	0.38	-0.17%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
153.19	17.07	229.19	30.34	229.66	30.34	229.65	30.34	229.65	13.27	77.74%	0.47	-0.20%	0	0.00%	-0.01	0.00%	0	0.00%	-0.01	0.00%
103.34	17.07	229.06	30.34	229.56	30.34	229.55	30.34	229.55	13.27	77.74%	0.50	-0.22%	0	0.00%	-0.01	0.00%	0	0.00%	-0.01	0.00%
43.78	17.07	228.78	30.34	229.35	30.34	229.34	30.34	229.33	13.27	77.74%	0.57	-0.25%	0	0.00%	-0.01	0.00%	0	0.00%	-0.02	-0.01%
B																				
4301.05	16.28	228.58	32.06	229.02	31.65	229.01	31.56	229.01	15.78	96.93%	0.44	-0.19%	-0.41	-1.28%	-0.01	0.00%	-0.5	-1.56%	-0.01	0.00%
4191.87	16.28	228.32	32.06	228.81	31.65	228.79	31.56	228.79	15.78	96.93%	0.49	-0.21%	-0.41	-1.28%	-0.02	-0.01%	-0.5	-1.56%	-0.02	-0.01%
4149.85	16.28	228.22	32.06	228.7	31.65	228.69	31.56	228.69	15.78	96.93%	0.48	-0.21%	-0.41	-1.28%	-0.01	0.00%	-0.5	-1.56%	-0.01	0.00%
4073.47	16.28	227.84	32.06	228.34	31.65	228.33	31.56	228.33	15.78	96.93%	0.50	-0.22%	-0.41	-1.28%	-0.01	0.00%	-0.5	-1.56%	-0.01	0.00%
3995.95	16.28	227.75	32.06	228.32	31.65	228.3	31.56	228.3	15.78	96.93%	0.57	-0.25%	-0.41	-1.28%	-0.02	-0.01%	-0.5	-1.56%	-0.02	-0.01%
3922.3	16.28	227.39	32.06	227.66	31.65	227.65	31.56	227.65	15.78	96.93%	0.27	-0.12%	-0.41	-1.28%	-0.01	0.00%	-0.5	-1.56%	-0.01	0.00%
3843.81	16.28	227.28	32.06	227.59	31.65	227.59	31.56	227.58	15.78	96.93%	0.31	-0.14%	-0.41	-1.28%	0.00	0.00%	-0.5	-1.56%	-0.01	0.00%
3733.59	16.28	226.71	32.06	227.05	31.65	227.04	31.56	227.04	15.78	96.93%	0.34	-0.15%	-0.41	-1.28%	-0.01	0.00%	-0.5	-1.56%	-0.01	0.00%
3663.48	16.28	226.56	32.06	227.06	31.65	227.06	31.56	227.05	15.78	96.93%	0.50	-0.22%	-0.41	-1.28%	0.00	0.00%	-0.5	-1.56%	-0.01	0.00%
3586.97	16.28	226.45	32.06	226.91	31.65	226.9	31.56	226.9	15.78	96.93%	0.46	-0.20%	-0.41	-1.28%	-0.01	0.00%	-0.5	-1.56%	-0.01	0.00%
C																				
3514.84	18.56	226.28	34.52	226.84	34.17	226.83	34.09	226.83	15.96	85.99%	0.56	-0.25%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
3443.92	18.56	226.11	34.52	226.78	34.17	226.77	34.09	226.77	15.96	85.99%	0.67	-0.30%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
3400.75	18.56	226.03	34.52	226.76	34.17	226.75	34.09	226.74	15.96	85.99%	0.73	-0.32%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.02	-0.01%
3353.9	18.56	225.97	34.52	226.71	34.17	226.7	34.09	226.69	15.96	85.99%	0.74	-0.33%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.02	-0.01%
3347.71	18.56	225.9	34.52	226.6	34.17	226.59	34.09	226.58	15.96	85.99%	0.70	-0.31%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.02	-0.01%

	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
3328.11	18.56	225.77	34.52	226.33	34.17	226.32	34.09	226.32	15.96	85.99%	0.56	-0.25%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
3322.34	18.56	225.58	34.52	225.87	34.17	225.86	34.09	225.86	15.96	85.99%	0.29	-0.13%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
3313.99	18.56	225.62	34.52	225.99	34.17	225.99	34.09	225.99	15.96	85.99%	0.37	-0.16%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	0.00	0.00%
3227.46	18.56	225.49	34.52	225.89	34.17	225.88	34.09	225.88	15.96	85.99%	0.40	-0.18%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
3162.11	18.56	225.37	34.52	225.66	34.17	225.65	34.09	225.65	15.96	85.99%	0.29	-0.13%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
3085.3	18.56	225.02	34.52	225.41	34.17	225.4	34.09	225.4	15.96	85.99%	0.39	-0.17%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
3010.28	18.56	224.78	34.52	225.06	34.17	225.05	34.09	225.05	15.96	85.99%	0.28	-0.12%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
2965.65	18.56	224.31	34.52	224.77	34.17	224.77	34.09	224.77	15.96	85.99%	0.46	-0.20%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	0.00	0.00%
2860.3	18.56	224.21	34.52	224.73	34.17	224.72	34.09	224.72	15.96	85.99%	0.52	-0.23%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
2762.96	18.56	223.89	34.52	224.31	34.17	224.29	34.09	224.29	15.96	85.99%	0.42	-0.19%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
2705.62	18.56	223.78	34.52	224.35	34.17	224.33	34.09	224.33	15.96	85.99%	0.57	-0.25%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
2630.45	18.56	223.74	34.52	224.32	34.17	224.3	34.09	224.3	15.96	85.99%	0.58	-0.26%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
2552.07	18.56	223.31	34.52	224.13	34.17	224.11	34.09	224.11	15.96	85.99%	0.82	-0.37%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
2506.12	18.56	223.35	34.52	224.18	34.17	224.16	34.09	224.16	15.96	85.99%	0.83	-0.37%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
2451.34	18.56	223.28	34.52	224.16	34.17	224.14	34.09	224.14	15.96	85.99%	0.88	-0.39%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
2372.65	18.56	223.17	34.52	224.12	34.17	224.1	34.09	224.09	15.96	85.99%	0.95	-0.42%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.03	-0.01%
2326.52	18.56	223.15	34.52	224.11	34.17	224.09	34.09	224.09	15.96	85.99%	0.96	-0.43%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
2203.16	18.56	223.1	34.52	224.08	34.17	224.05	34.09	224.05	15.96	85.99%	0.98	-0.44%	-0.35	-1.01%	-0.03	-0.01%	-0.43	-1.25%	-0.03	-0.01%
2193.73	18.56	223.04	34.52	223.95	34.17	223.93	34.09	223.93	15.96	85.99%	0.91	-0.41%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
2155.25	18.56	222.16	34.52	222.48	34.17	222.48	34.09	222.47	15.96	85.99%	0.32	-0.14%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	-0.01	0.00%
2142.71	18.56	222.07	34.52	222.42	34.17	222.42	34.09	222.42	15.96	85.99%	0.35	-0.16%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	0.00	0.00%
2099.8	18.56	221.56	34.52	222.01	34.17	222.01	34.09	222	15.96	85.99%	0.45	-0.20%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	-0.01	0.00%
2026.97	18.56	221.34	34.52	221.82	34.17	221.82	34.09	221.81	15.96	85.99%	0.48	-0.22%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	-0.01	0.00%
1916.7	18.56	220.85	34.52	221.3	34.17	221.29	34.09	221.29	15.96	85.99%	0.45	-0.20%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
1810.91	18.56	220.42	34.52	220.97	34.17	220.95	34.09	220.95	15.96	85.99%	0.55	-0.25%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
1669.68	18.56	219.61	34.52	219.73	34.17	219.73	34.09	219.73	15.96	85.99%	0.12	-0.05%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	0.00	0.00%
1604.17	18.56	219.39	34.52	219.76	34.17	219.75	34.09	219.75	15.96	85.99%	0.37	-0.17%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
1444.02	18.56	218.64	34.52	219.06	34.17	219.05	34.09	219.05	15.96	85.99%	0.42	-0.19%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
1370.51	18.56	218.35	34.52	218.7	34.17	218.69	34.09	218.69	15.96	85.99%	0.35	-0.16%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.01	0.00%
1220.66	18.56	217.86	34.52	218.38	34.17	218.36	34.09	218.36	15.96	85.99%	0.52	-0.24%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
1191.49	18.56	217.77	34.52	218.33	34.17	218.32	34.09	218.31	15.96	85.99%	0.56	-0.26%	-0.35	-1.01%	-0.01	0.00%	-0.43	-1.25%	-0.02	-0.01%
1172.51	18.56	217.66	34.52	218.32	34.17	218.3	34.09	218.3	15.96	85.99%	0.66	-0.30%	-0.35	-1.01%	-0.02	-0.01%	-0.43	-1.25%	-0.02	-0.01%
1161.98	18.56	217.56	34.52	217.74	34.17	217.74	34.09	217.74	15.96	85.99%	0.18	-0.08%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	0.00	0.00%
1156.51	18.56	217.59	34.52	217.74	34.17	217.74	34.09	217.74	15.96	85.99%	0.15	-0.07%	-0.35	-1.01%	0.00	0.00%	-0.43	-1.25%	0.00	0.00%
1098.91	42.13	217.4	57.27	217.62	56.89	217.61	56.8	217.61	15.14	35.94%	0.22	-0.10%	-0.38	-0.66%	-0.01	0.00%	-0.47	-0.82%	-0.01	0.00%
928.99	42.13	216.79	57.27	217	56.89	217	56.8	216.99	15.14	35.94%	0.21	-0.10%	-0.38	-0.66%	0.00	0.00%	-0.47	-0.82%	-0.01	0.00%
732	42.13	216.46	57.27	216.63	56.89	216.63	56.8	216.63	15.14	35.94%	0.17	-0.08%	-0.38	-0.66%	0.00	0.00%	-0.47	-0.82%	0.00	0.00%
549.97	42.13	216.36	57.27	216.5	56.89	216.49	56.8	216.49	15.14	35.94%	0.14	-0.06%	-0.38	-0.66%	-0.01	0.00%	-0.47	-0.82%	-0.01	0.00%
485.47	42.13	216.34	57.27	216.47	56.89	216.46	56.8	216.46	15.14	35.94%	0.13	-0.06%	-0.38	-0.66%	-0.01	0.00%	-0.47	-0.82%	-0.01	0.00%

	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
377.88	42.13	216.33	57.27	216.46	56.89	216.45	56.8	216.45	15.14	35.94%	0.13	-0.06%	-0.38	-0.66%	-0.01	0.00%	-0.47	-0.82%	-0.01	0.00%
305.08	42.13	216.32	57.27	216.43	56.89	216.43	56.8	216.43	15.14	35.94%	0.11	-0.05%	-0.38	-0.66%	0.00	0.00%	-0.47	-0.82%	0.00	0.00%
274.22	42.13	215.36	57.27	215.68	56.89	215.65	56.8	215.65	15.14	35.94%	0.32	-0.15%	-0.38	-0.66%	-0.03	-0.01%	-0.47	-0.82%	-0.03	-0.01%
232.9	42.13	215.38	57.27	215.67	56.89	215.64	56.8	215.64	15.14	35.94%	0.29	-0.13%	-0.38	-0.66%	-0.03	-0.01%	-0.47	-0.82%	-0.03	-0.01%
195.78	42.13	215.36	57.27	215.66	56.89	215.63	56.8	215.63	15.14	35.94%	0.30	-0.14%	-0.38	-0.66%	-0.03	-0.01%	-0.47	-0.82%	-0.03	-0.01%
153.24	42.13	215.37	57.27	215.66	56.89	215.63	56.8	215.63	15.14	35.94%	0.29	-0.13%	-0.38	-0.66%	-0.03	-0.01%	-0.47	-0.82%	-0.03	-0.01%
135.63	42.13	215.37	57.27	215.66	56.89	215.63	56.8	215.63	15.14	35.94%	0.29	-0.13%	-0.38	-0.66%	-0.03	-0.01%	-0.47	-0.82%	-0.03	-0.01%
117.58	42.13	215.37	57.27	215.66	56.89	215.63	56.8	215.63	15.14	35.94%	0.29	-0.13%	-0.38	-0.66%	-0.03	-0.01%	-0.47	-0.82%	-0.03	-0.01%
95.84	42.13	214.87	57.27	215.65	56.89	215.63	56.8	215.62	15.14	35.94%	0.78	-0.36%	-0.38	-0.66%	-0.02	-0.01%	-0.47	-0.82%	-0.03	-0.01%
89.86	42.13	214.87	57.27	215.65	56.89	215.63	56.8	215.62	15.14	35.94%	0.78	-0.36%	-0.38	-0.66%	-0.02	-0.01%	-0.47	-0.82%	-0.03	-0.01%
7.5	42.13	214.85	57.27	215.65	56.89	215.62	56.8	215.62	15.14	35.94%	0.80	-0.37%	-0.38	-0.66%	-0.03	-0.01%	-0.47	-0.82%	-0.03	-0.01%
-84.15	42.13	214.8	57.27	215.63	56.89	215.61	56.8	215.6	15.14	35.94%	0.83	-0.38%	-0.38	-0.66%	-0.02	-0.01%	-0.47	-0.82%	-0.03	-0.01%
-94.72	42.13	214.81	57.27	215.63	56.89	215.61	56.8	215.6	15.14	35.94%	0.82	-0.38%	-0.38	-0.66%	-0.02	-0.01%	-0.47	-0.82%	-0.03	-0.01%
-130.5	42.13	214.64	57.27	215.62	56.89	215.59	56.8	215.59	15.14	35.94%	0.98	-0.45%	-0.38	-0.66%	-0.03	-0.01%	-0.47	-0.82%	-0.03	-0.01%
-155.98	42.13	213.48	57.27	213.63	56.89	213.63	56.8	213.63	15.14	35.94%	0.15	-0.07%	-0.38	-0.66%	0.00	0.00%	-0.47	-0.82%	0.00	0.00%
-202.08	42.13	213.55	57.27	213.81	56.89	213.8	56.8	213.8	15.14	35.94%	0.26	-0.12%	-0.38	-0.66%	-0.01	0.00%	-0.47	-0.82%	-0.01	0.00%
-298	42.13	213.11	57.27	213.41	56.89	213.4	56.8	213.4	15.14	35.94%	0.30	-0.14%	-0.38	-0.66%	-0.01	0.00%	-0.47	-0.82%	-0.01	0.00%
D																				
1756	43.59	211.97	58.26	212.26	57.95	212.25	57.87	212.25	14.67	33.65%	0.29	-0.14%	-0.31	-0.53%	-0.01	0.00%	-0.39	-0.67%	-0.01	0.00%
1673	43.59	211.61	58.26	211.9	57.95	211.9	57.87	211.9	14.67	33.65%	0.29	-0.14%	-0.31	-0.53%	0.00	0.00%	-0.39	-0.67%	0.00	0.00%
1647	43.59	211.08	58.26	211.36	57.95	211.36	57.87	211.35	14.67	33.65%	0.28	-0.13%	-0.31	-0.53%	0.00	0.00%	-0.39	-0.67%	-0.01	0.00%
1502	43.59	210.97	58.26	211.14	57.95	211.13	57.87	211.13	14.67	33.65%	0.17	-0.08%	-0.31	-0.53%	-0.01	0.00%	-0.39	-0.67%	-0.01	0.00%
E																				
1402	46.75	210.84	61.8	210.99	61.36	210.99	60.65	210.98	15.05	32.19%	0.15	-0.07%	-0.44	-0.71%	0.00	0.00%	-1.15	-1.86%	-0.01	0.00%
1214	46.75	210.77	61.8	210.9	61.36	210.89	60.65	210.89	15.05	32.19%	0.13	-0.06%	-0.44	-0.71%	-0.01	0.00%	-1.15	-1.86%	-0.01	0.00%
1157	46.75	210.75	61.8	210.87	61.36	210.87	60.65	210.86	15.05	32.19%	0.12	-0.06%	-0.44	-0.71%	0.00	0.00%	-1.15	-1.86%	-0.01	0.00%
1127	46.75	210.74	61.8	210.87	61.36	210.86	60.65	210.86	15.05	32.19%	0.13	-0.06%	-0.44	-0.71%	-0.01	0.00%	-1.15	-1.86%	-0.01	0.00%
1102	46.75	210.73	61.8	210.85	61.36	210.85	60.65	210.84	15.05	32.19%	0.12	-0.06%	-0.44	-0.71%	0.00	0.00%	-1.15	-1.86%	-0.01	0.00%
1092	46.75	210.73	61.8	210.85	61.36	210.85	60.65	210.84	15.05	32.19%	0.12	-0.06%	-0.44	-0.71%	0.00	0.00%	-1.15	-1.86%	-0.01	0.00%
1041	46.75	210.71	61.8	210.83	61.36	210.83	60.65	210.82	15.05	32.19%	0.12	-0.06%	-0.44	-0.71%	0.00	0.00%	-1.15	-1.86%	-0.01	0.00%
1016	46.75	210.69	61.8	210.8	61.36	210.79	60.65	210.79	15.05	32.19%	0.11	-0.05%	-0.44	-0.71%	-0.01	0.00%	-1.15	-1.86%	-0.01	0.00%
1000	46.75	210.15	61.8	210.29	61.36	210.28	60.65	210.29	15.05	32.19%	0.14	-0.07%	-0.44	-0.71%	-0.01	0.00%	-1.15	-1.86%	0.00	0.00%
985	46.75	209.5	61.8	209.58	61.36	209.58	60.65	209.57	15.05	32.19%	0.08	-0.04%	-0.44	-0.71%	0.00	0.00%	-1.15	-1.86%	-0.01	0.00%
915	46.75	209.49	61.8	209.57	61.36	209.57	60.65	209.57	15.05	32.19%	0.08	-0.04%	-0.44	-0.71%	0.00	0.00%	-1.15	-1.86%	0.00	0.00%
724	46.72	209.33	61.76	209.32	61.32	209.32	60.65	209.32	15.04	32.19%	-0.01	0.00%	-0.44	-0.71%	0.00	0.00%	-1.11	-1.80%	0.00	0.00%
ColdCrkWestTrbB																				
A																				
981.64	0.36	258.79	0.97	258.89	0.69	258.85	0.69	258.85	0.61	169.44%	0.10	-0.04%	-0.28	-28.87%	-0.04	-0.02%	-0.28	-28.87%	-0.04	-0.02%
945.64	0.36	258.63	0.97	258.71	0.69	258.67	0.69	258.67	0.61	169.44%	0.08	-0.03%	-0.28	-28.87%	-0.04	-0.02%	-0.28	-28.87%	-0.04	-0.02%

	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
919.87	0.36	258.38	0.97	258.46	0.69	258.43	0.69	258.43	0.61	169.44%	0.08	-0.03%	-0.28	-28.87%	-0.03	-0.01%	-0.28	-28.87%	-0.03	-0.01%
884.32	0.36	258.05	0.97	258.11	0.69	258.08	0.69	258.08	0.61	169.44%	0.06	-0.02%	-0.28	-28.87%	-0.03	-0.01%	-0.28	-28.87%	-0.03	-0.01%
849.56	0.36	257.64	0.97	257.72	0.69	257.7	0.69	257.7	0.61	169.44%	0.08	-0.03%	-0.28	-28.87%	-0.02	-0.01%	-0.28	-28.87%	-0.02	-0.01%
806.16	0.36	257.22	0.97	257.3	0.69	257.26	0.69	257.26	0.61	169.44%	0.08	-0.03%	-0.28	-28.87%	-0.04	-0.02%	-0.28	-28.87%	-0.04	-0.02%
770.97	0.36	256.85	0.97	256.91	0.69	256.89	0.69	256.89	0.61	169.44%	0.06	-0.02%	-0.28	-28.87%	-0.02	-0.01%	-0.28	-28.87%	-0.02	-0.01%
739.57	0.36	256.63	0.97	256.7	0.69	256.67	0.69	256.67	0.61	169.44%	0.07	-0.03%	-0.28	-28.87%	-0.03	-0.01%	-0.28	-28.87%	-0.03	-0.01%
709.09	0.36	256.48	0.97	256.55	0.69	256.52	0.69	256.52	0.61	169.44%	0.07	-0.03%	-0.28	-28.87%	-0.03	-0.01%	-0.28	-28.87%	-0.03	-0.01%
671.44	0.36	256.27	0.97	256.36	0.69	256.32	0.69	256.32	0.61	169.44%	0.09	-0.04%	-0.28	-28.87%	-0.04	-0.02%	-0.28	-28.87%	-0.04	-0.02%
652.51	0.36	256.07	0.97	256.14	0.69	256.12	0.69	256.12	0.61	169.44%	0.07	-0.03%	-0.28	-28.87%	-0.02	-0.01%	-0.28	-28.87%	-0.02	-0.01%
624.08	0.36	255.5	0.97	255.53	0.69	255.51	0.69	255.51	0.61	169.44%	0.03	-0.01%	-0.28	-28.87%	-0.02	-0.01%	-0.28	-28.87%	-0.02	-0.01%
607.56	0.36	253.62	1.24	253.82	0.93	253.76	0.93	253.76	0.88	244.44%	0.20	-0.08%	-0.31	-25.00%	-0.06	-0.02%	-0.31	-25.00%	-0.06	-0.02%
568.74	0.36	251.36	1.24	251.54	0.93	251.49	0.93	251.49	0.88	244.44%	0.18	-0.07%	-0.31	-25.00%	-0.05	-0.02%	-0.31	-25.00%	-0.05	-0.02%
533.8	0.36	250.05	1.24	250.25	0.93	250.19	0.93	250.19	0.88	244.44%	0.20	-0.08%	-0.31	-25.00%	-0.06	-0.02%	-0.31	-25.00%	-0.06	-0.02%
487.47	0.36	247.93	1.24	248.14	0.93	248.08	0.93	248.08	0.88	244.44%	0.21	-0.08%	-0.31	-25.00%	-0.06	-0.02%	-0.31	-25.00%	-0.06	-0.02%
443.23	0.36	246.36	1.24	246.53	0.93	246.48	0.93	246.48	0.88	244.44%	0.17	-0.07%	-0.31	-25.00%	-0.05	-0.02%	-0.31	-25.00%	-0.05	-0.02%
400.77	0.36	244.29	1.24	244.47	0.93	244.41	0.93	244.41	0.88	244.44%	0.18	-0.07%	-0.31	-25.00%	-0.06	-0.02%	-0.31	-25.00%	-0.06	-0.02%
361.2	0.36	242.27	1.24	242.45	0.93	242.4	0.93	242.4	0.88	244.44%	0.18	-0.07%	-0.31	-25.00%	-0.05	-0.02%	-0.31	-25.00%	-0.05	-0.02%
329.49	0.36	240.35	1.24	240.55	0.93	240.5	0.93	240.5	0.88	244.44%	0.20	-0.08%	-0.31	-25.00%	-0.05	-0.02%	-0.31	-25.00%	-0.05	-0.02%
307.17	0.36	239.23	1.24	239.41	0.93	239.36	0.93	239.36	0.88	244.44%	0.18	-0.08%	-0.31	-25.00%	-0.05	-0.02%	-0.31	-25.00%	-0.05	-0.02%
280.02	0.36	238.17	1.24	238.37	0.93	238.31	0.93	238.31	0.88	244.44%	0.20	-0.08%	-0.31	-25.00%	-0.06	-0.03%	-0.31	-25.00%	-0.06	-0.03%
232.99	0.36	236.48	1.24	236.63	0.93	236.6	0.93	236.6	0.88	244.44%	0.15	-0.06%	-0.31	-25.00%	-0.03	-0.01%	-0.31	-25.00%	-0.03	-0.01%
B (Newly Modelled Tributary)																				
1004			0.88	256.49	3.42	256.87	3.35	256.87					2.54	288.64%	0.38	0.15%	2.47	280.68%	0.38	0.15%
948			0.88	252.86	3.42	253.01	3.35	253.01					2.54	288.64%	0.15	0.06%	2.47	280.68%	0.15	0.06%
926			0.88	250.5	3.42	250.87	3.35	250.87					2.54	288.64%	0.37	0.15%	2.47	280.68%	0.37	0.15%
901			0.88	249.58	3.42	249.86	3.35	249.85					2.54	288.64%	0.28	0.11%	2.47	280.68%	0.27	0.11%
861			0.88	247.37	3.42	247.57	3.35	247.57					2.54	288.64%	0.20	0.08%	2.47	280.68%	0.20	0.08%
846			0.88	246.65	3.42	246.76	3.35	246.76					2.54	288.64%	0.11	0.04%	2.47	280.68%	0.11	0.04%
827			0.88	245.34	3.42	245.63	3.35	245.62					2.54	288.64%	0.29	0.12%	2.47	280.68%	0.28	0.11%
806			0.88	244.35	3.42	244.65	3.35	244.64					2.54	288.64%	0.30	0.12%	2.47	280.68%	0.29	0.12%
779			0.88	243.13	3.42	243.29	3.35	243.28					2.54	288.64%	0.16	0.07%	2.47	280.68%	0.15	0.06%
753			0.88	240.87	3.42	241.18	3.35	241.17					2.54	288.64%	0.31	0.13%	2.47	280.68%	0.30	0.12%
728			0.88	239.33	3.42	239.68	3.35	239.67					2.54	288.64%	0.35	0.15%	2.47	280.68%	0.34	0.14%
693			0.88	237.64	3.42	237.82	3.35	237.82					2.54	288.64%	0.18	0.08%	2.47	280.68%	0.18	0.08%
C																				
185.83	0.36	234.24	2.33	234.62	4.1	234.83	4.99	234.91	1.97	547.22%	0.38	-0.16%	1.77	75.97%	0.21	0.09%	2.66	114.16%	0.29	0.12%
128.69	0.36	232.35	2.33	232.71	4.1	232.89	4.99	232.94	1.97	547.22%	0.36	-0.15%	1.77	75.97%	0.18	0.08%	2.66	114.16%	0.23	0.10%
91.9	0.36	230.61	2.33	230.88	4.1	231.04	4.99	231.1	1.97	547.22%	0.27	-0.12%	1.77	75.97%	0.16	0.07%	2.66	114.16%	0.22	0.10%
53.37	0.36	229.11	2.33	229.44	4.1	229.63	4.99	229.71	1.97	547.22%	0.33	-0.14%	1.77	75.97%	0.19	0.08%	2.66	114.16%	0.27	0.12%

	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
ColdCrkWestTrbC																				
A																				
2317.44	1.94	267.76	1.97	267.76	1.97	267.76	1.97	267.76	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
2258.61	1.94	267.75	1.97	267.75	1.97	267.75	1.97	267.75	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
2195.39	1.94	267.74	1.97	267.75	1.97	267.75	1.97	267.75	0.03	1.55%	0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
2107.05	1.94	267.67	1.97	267.68	1.97	267.68	1.97	267.68	0.03	1.55%	0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
2081.85	1.94	267.44	1.97	267.44	1.97	267.44	1.97	267.44	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
2052.86	1.94	266.96	1.97	266.97	1.97	266.97	1.97	266.97	0.03	1.55%	0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
2026.48	1.94	266.91	1.97	266.92	1.97	266.92	1.97	266.92	0.03	1.55%	0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1945.21	1.94	266.47	1.97	266.48	1.97	266.48	1.97	266.48	0.03	1.55%	0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1903.63	1.94	265.31	1.97	265.31	1.97	265.31	1.97	265.31	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1832.43	1.94	263.55	1.97	263.55	1.97	263.55	1.97	263.55	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1779.6	1.94	262.92	1.97	262.92	1.97	262.92	1.97	262.92	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1719.44	1.94	262.62	1.97	262.62	1.97	262.62	1.97	262.62	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1691.94	1.94	262.61	1.97	262.61	1.97	262.61	1.97	262.61	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1659.7	1.94	262.54	1.97	262.54	1.97	262.54	1.97	262.54	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1609.61	1.94	262.31	1.97	262.31	1.97	262.31	1.97	262.31	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1534.1	1.94	261.45	1.97	261.45	1.97	261.45	1.97	261.45	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1477.72	1.94	260.92	1.97	260.92	1.97	260.92	1.97	260.92	0.03	1.55%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1379.36	1.94	260.12	1.97	260.13	1.97	260.13	1.97	260.13	0.03	1.55%	0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1324.43	3.23	258.17	3.15	258.16	3.15	258.16	3.15	258.16	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1232.51	3.23	257.68	3.15	257.67	3.15	257.67	3.15	257.67	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1113.91	3.23	257.57	3.15	257.57	3.15	257.57	3.15	257.57	-0.08	-2.48%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1059.21	3.23	257.58	3.15	257.57	3.15	257.57	3.15	257.57	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
1027.62	3.23	257.56	3.15	257.55	3.15	257.55	3.15	257.55	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
999.54	3.23	257.35	3.15	257.34	3.15	257.34	3.15	257.34	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
931.01	3.23	257.08	3.15	257.08	3.15	257.08	3.15	257.08	-0.08	-2.48%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
864.2	3.23	256.83	3.15	256.83	3.15	256.83	3.15	256.83	-0.08	-2.48%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
842.55	3.23	256.53	3.15	256.52	3.15	256.52	3.15	256.52	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
734.54	3.23	255.68	3.15	255.67	3.15	255.67	3.15	255.67	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
709.85	3.23	255.67	3.15	255.66	3.15	255.66	3.15	255.66	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
655.7	3.23	255.65	3.15	255.64	3.15	255.64	3.15	255.64	-0.08	-2.48%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
621.5	3.43	255.65	3.4	255.65	3.4	255.65	3.4	255.65	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
605.12	3.43	255.64	3.4	255.64	3.4	255.64	3.4	255.64	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
581.36	3.43	254.44	3.4	254.44	3.4	254.44	3.4	254.44	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
559.18	3.43	254.13	3.4	254.13	3.4	254.13	3.4	254.13	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
513.56	3.43	253.48	3.4	253.48	3.4	253.48	3.4	253.48	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
424.41	3.43	252.33	3.4	252.33	3.4	252.33	3.4	252.33	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
376.8	3.43	251.75	3.4	251.75	3.4	251.75	3.4	251.75	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%

	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
330.55	3.43	250.96	3.4	250.96	3.4	250.96	3.4	250.96	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
262.72	3.43	248.96	3.4	248.95	3.4	248.95	3.4	248.95	-0.03	-0.87%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
221.51	3.43	247.92	3.4	247.92	3.4	247.92	3.4	247.92	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
179.18	3.43	246.8	3.4	246.8	3.4	246.8	3.4	246.8	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
150.14	3.43	245.78	3.4	245.78	3.4	245.78	3.4	245.78	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
68.99	3.43	244.54	3.4	244.54	3.4	244.54	3.4	244.54	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
24.72	3.43	244	3.4	244	3.4	244	3.4	244	-0.03	-0.87%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
B																				
779.11	5.56	243.44	5.41	243.43	5.41	243.43	5.41	243.43	-0.15	-2.70%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
754.74	5.56	243.1	5.41	243.1	5.41	243.1	5.41	243.1	-0.15	-2.70%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
709.77	5.56	242.59	5.41	242.58	5.41	242.58	5.41	242.58	-0.15	-2.70%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
672.39	5.56	242.41	5.41	242.4	5.41	242.4	5.41	242.4	-0.15	-2.70%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
630.06	5.56	241.99	5.41	241.99	5.41	241.99	5.41	241.99	-0.15	-2.70%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
570.96	5.56	240.98	5.41	240.98	5.41	240.98	5.41	240.98	-0.15	-2.70%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
515.77	5.56	240.12	5.41	240.11	5.41	240.11	5.41	240.11	-0.15	-2.70%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
475.95	5.56	239.52	5.41	239.52	5.41	239.52	5.41	239.52	-0.15	-2.70%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
441.74	5.56	239.02	5.41	239.02	5.41	239.02	5.41	239.02	-0.15	-2.70%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
390.05	5.56	238.13	5.41	238.13	5.41	238.13	5.41	238.13	-0.15	-2.70%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
357.57	5.56	237.55	5.41	237.55	5.41	237.55	5.41	237.55	-0.15	-2.70%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
317.27	5.56	236.97	5.41	236.96	5.41	236.96	5.41	236.96	-0.15	-2.70%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
264.46	5.56	235.82	5.41	235.82	5.41	235.82	5.41	235.82	-0.15	-2.70%	0.00	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
237.04	5.56	235.08	5.41	235.07	5.41	235.07	5.41	235.07	-0.15	-2.70%	-0.01	0.00%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
208.2	5.56	234.27	5.41	234.25	5.41	234.25	5.41	234.25	-0.15	-2.70%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
174.96	5.56	233.04	5.41	233.02	5.41	233.02	5.41	233.02	-0.15	-2.70%	-0.02	0.01%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
83.84	5.56	232.14	5.41	232.4	5.41	232.4	5.41	232.4	-0.15	-2.70%	0.26	-0.11%	0	0.00%	0.00	0.00%	0	0.00%	0.00	0.00%
MainHumberTrbA																				
A																				
4822.04	1.39	263.85	1.26	263.83	1.26	263.83	4.26	264.06	-0.13	-9.35%	-0.02	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.23	0.09%
4783.59	1.39	263.28	1.26	263.26	1.26	263.26	4.26	263.52	-0.13	-9.35%	-0.02	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.26	0.10%
4731.68	1.39	262.43	1.26	262.42	1.26	262.42	4.26	262.58	-0.13	-9.35%	-0.01	0.00%	0	0.00%	0.00	0.00%	3	238.10%	0.16	0.06%
4652.11	1.39	262.21	1.26	262.19	1.26	262.19	4.26	262.52	-0.13	-9.35%	-0.02	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.33	0.13%
4592.65	1.39	262.2	1.26	262.18	1.26	262.18	4.26	262.52	-0.13	-9.35%	-0.02	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.34	0.13%
4574	1.39	262.2	1.26	262.18	1.26	262.18	4.26	262.52	-0.13	-9.35%	-0.02	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.34	0.13%
4540	1.39	262.2	1.26	262.18	1.26	262.18	4.26	262.52	-0.13	-9.35%	-0.02	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.34	0.13%
4515.64	1.39	262.09	1.26	262.08	1.26	262.08	4.26	262.32	-0.13	-9.35%	-0.01	0.00%	0	0.00%	0.00	0.00%	3	238.10%	0.24	0.09%
4460.59	1.39	262.04	1.26	262.03	1.26	262.03	4.26	262.3	-0.13	-9.35%	-0.01	0.00%	0	0.00%	0.00	0.00%	3	238.10%	0.27	0.10%
4407.62	1.39	262	1.26	261.99	1.26	261.99	4.26	262.24	-0.13	-9.35%	-0.01	0.00%	0	0.00%	0.00	0.00%	3	238.10%	0.25	0.10%
4354.33	1.39	261.7	1.26	261.68	1.26	261.68	4.26	262.04	-0.13	-9.35%	-0.02	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.36	0.14%
4322.62	1.39	261.58	1.26	261.55	1.26	261.55	4.26	261.94	-0.13	-9.35%	-0.03	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.39	0.15%

	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
4293.51	1.39	261.43	1.26	261.41	1.26	261.41	4.26	261.68	-0.13	-9.35%	-0.02	0.01%	0	0.00%	0.00	0.00%	3	238.10%	0.27	0.10%
4265.3	1.39	261.11	1.26	261.1	1.26	261.1	4.26	261.36	-0.13	-9.35%	-0.01	0.00%	0	0.00%	0.00	0.00%	3	238.10%	0.26	0.10%
4240.34	1.39	260.38	1.26	260.38	1.26	260.38	4.26	260.51	-0.13	-9.35%	0.00	0.00%	0	0.00%	0.00	0.00%	3	238.10%	0.13	0.05%
4181.11	1.39	260.07	1.26	260.08	1.26	260.08	4.26	260.32	-0.13	-9.35%	0.01	0.00%	0	0.00%	0.00	0.00%	3	238.10%	0.24	0.09%
4121.04	2.87	259.58	3.42	259.61	3.42	259.61	10.17	259.79	0.55	19.16%	0.03	-0.01%	0	0.00%	0.00	0.00%	6.75	197.37%	0.18	0.07%
4055.36	2.87	259.03	3.42	259.06	3.42	259.06	10.17	259.4	0.55	19.16%	0.03	-0.01%	0	0.00%	0.00	0.00%	6.75	197.37%	0.34	0.13%
4004.48	2.87	259.02	3.42	259.06	3.42	259.06	10.17	259.4	0.55	19.16%	0.04	-0.02%	0	0.00%	0.00	0.00%	6.75	197.37%	0.34	0.13%
3947.08	2.87	259.02	3.42	259.06	3.42	259.06	10.17	259.4	0.55	19.16%	0.04	-0.02%	0	0.00%	0.00	0.00%	6.75	197.37%	0.34	0.13%
3869.46	2.87	259.02	3.42	259.06	3.42	259.06	10.17	259.39	0.55	19.16%	0.04	-0.02%	0	0.00%	0.00	0.00%	6.75	197.37%	0.33	0.13%
3837.47	2.87	258.89	3.42	258.92	3.42	258.92	10.17	259.17	0.55	19.16%	0.03	-0.01%	0	0.00%	0.00	0.00%	6.75	197.37%	0.25	0.10%
3758.91	2.87	258.61	3.42	258.65	3.42	258.65	10.17	258.97	0.55	19.16%	0.04	-0.02%	0	0.00%	0.00	0.00%	6.75	197.37%	0.32	0.12%
3700.91	2.87	258.55	3.42	258.59	3.42	258.59	10.17	258.89	0.55	19.16%	0.04	-0.02%	0	0.00%	0.00	0.00%	6.75	197.37%	0.30	0.12%
3650.13	2.87	258.45	3.42	258.48	3.42	258.48	10.17	258.76	0.55	19.16%	0.03	-0.01%	0	0.00%	0.00	0.00%	6.75	197.37%	0.28	0.11%
3587.5	2.87	258.26	3.42	258.28	3.42	258.28	10.17	258.53	0.55	19.16%	0.02	-0.01%	0	0.00%	0.00	0.00%	6.75	197.37%	0.25	0.10%
3530.86	2.87	257.92	3.42	257.95	3.42	257.95	10.17	258.16	0.55	19.16%	0.03	-0.01%	0	0.00%	0.00	0.00%	6.75	197.37%	0.21	0.08%
3486.25	2.87	257.61	3.42	257.63	3.42	257.64	10.17	258	0.55	19.16%	0.02	-0.01%	0	0.00%	0.01	0.00%	6.75	197.37%	0.37	0.14%
3456.94	2.87	257.38	3.42	257.41	3.42	257.41	10.17	258.01	0.55	19.16%	0.03	-0.01%	0	0.00%	0.00	0.00%	6.75	197.37%	0.60	0.23%
3435.76	2.87	256.89	3.42	256.91	3.42	257.03	10.17	258	0.55	19.16%	0.02	-0.01%	0	0.00%	0.12	0.05%	6.75	197.37%	1.09	0.42%
3426.56	2.87	256.68	3.42	256.71	3.42	257.02	10.17	258.01	0.55	19.16%	0.03	-0.01%	0	0.00%	0.31	0.12%	6.75	197.37%	1.30	0.51%
3396.62	2.87	256.3	3.42	256.68	3.42	257.02	10.17	258.01	0.55	19.16%	0.38	-0.15%	0	0.00%	0.34	0.13%	6.75	197.37%	1.33	0.52%
3377.5	2.87	256.06	3.42	256.68	3.42	257.01	10.17	258	0.55	19.16%	0.62	-0.24%	0	0.00%	0.33	0.13%	6.75	197.37%	1.32	0.51%
3359.36	2.87	255.73	3.42	256.68	3.42	257.01	10.17	258	0.55	19.16%	0.95	-0.37%	0	0.00%	0.33	0.13%	6.75	197.37%	1.32	0.51%
3339.67	2.87	255.69	3.42	256.68	3.42	257.01	10.17	258	0.55	19.16%	0.99	-0.39%	0	0.00%	0.33	0.13%	6.75	197.37%	1.32	0.51%
3321.23	2.87	255.68	3.42	256.68	3.42	257.01	10.17	258	0.55	19.16%	1.00	-0.39%	0	0.00%	0.33	0.13%	6.75	197.37%	1.32	0.51%
3287.37	2.87	255.68	3.42	256.68	3.42	257.01	10.17	258	0.55	19.16%	1.00	-0.39%	0	0.00%	0.33	0.13%	6.75	197.37%	1.32	0.51%
3269.41	2.87	255.67	3.42	256.68	3.42	257.01	10.17	258	0.55	19.16%	1.01	-0.39%	0	0.00%	0.33	0.13%	6.75	197.37%	1.32	0.51%
3188.65	9.15	255.63	14.66	256.63	16.03	256.97	20.78	258	5.51	60.22%	1.00	-0.39%	1.37	9.35%	0.34	0.13%	6.12	41.75%	1.37	0.53%
3123.12	9.15	253.83	14.66	254.02	16.03	254.05	20.78	255.18	5.51	60.22%	0.19	-0.07%	1.37	9.35%	0.03	0.01%	6.12	41.75%	1.16	0.46%
3107.01	9.15	253.34	14.66	253.41	16.03	253.72	20.78	255.22	5.51	60.22%	0.07	-0.03%	1.37	9.35%	0.31	0.12%	6.12	41.75%	1.81	0.71%
3043.25	9.15	252.76	14.66	253.37	16.03	253.74	20.78	255.22	5.51	60.22%	0.61	-0.24%	1.37	9.35%	0.37	0.15%	6.12	41.75%	1.85	0.73%
2991.29	9.15	252.2	14.66	253.36	16.03	253.74	20.78	255.22	5.51	60.22%	1.16	-0.46%	1.37	9.35%	0.38	0.15%	6.12	41.75%	1.86	0.73%
2930.14	9.15	252.25	14.66	253.36	16.03	253.74	20.78	255.22	5.51	60.22%	1.11	-0.44%	1.37	9.35%	0.38	0.15%	6.12	41.75%	1.86	0.73%
2887.5	9.15	252.25	14.66	253.36	16.03	253.74	20.78	255.22	5.51	60.22%	1.11	-0.44%	1.37	9.35%	0.38	0.15%	6.12	41.75%	1.86	0.73%
2802.56	11.02	252.25	17.65	253.36	19.29	253.74	25.02	255.22	6.63	60.16%	1.11	-0.44%	1.64	9.29%	0.38	0.15%	7.37	41.76%	1.86	0.73%
2775.8	11.02	252.25	17.65	253.36	19.29	253.74	25.02	255.22	6.63	60.16%	1.11	-0.44%	1.64	9.29%	0.38	0.15%	7.37	41.76%	1.86	0.73%
2760.75	11.02	252.22	17.65	253.32	19.29	253.7	25.02	255.22	6.63	60.16%	1.10	-0.43%	1.64	9.29%	0.38	0.15%	7.37	41.76%	1.90	0.75%
2706.72	11.02	250.67	17.65	250.88	19.29	250.93	25.02	251.08	6.63	60.16%	0.21	-0.08%	1.64	9.29%	0.05	0.02%	7.37	41.76%	0.20	0.08%
2688.78	11.02	249.98	17.65	250.12	19.29	250.14	25.02	250.23	6.63	60.16%	0.14	-0.06%	1.64	9.29%	0.02	0.01%	7.37	41.76%	0.11	0.04%
2611.59	11.02	248.44	17.65	248.54	19.29	248.56	25.02	249.11	6.63	60.16%	0.10	-0.04%	1.64	9.29%	0.02	0.01%	7.37	41.76%	0.57	0.23%

	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
2560.8	11.02	248.01	17.65	248.16	19.29	248.19	25.02	249.1	6.63	60.16%	0.15	-0.06%	1.64	9.29%	0.03	0.01%	7.37	41.76%	0.94	0.38%
2506.61	11.02	247.69	17.65	247.86	19.29	247.89	25.02	249.09	6.63	60.16%	0.17	-0.07%	1.64	9.29%	0.03	0.01%	7.37	41.76%	1.23	0.50%
2483.51	11.02	247.44	17.65	247.61	19.29	247.66	25.02	249.08	6.63	60.16%	0.17	-0.07%	1.64	9.29%	0.05	0.02%	7.37	41.76%	1.47	0.59%
2452.23	11.02	247.29	17.65	247.48	19.29	247.56	25.02	249.08	6.63	60.16%	0.19	-0.08%	1.64	9.29%	0.08	0.03%	7.37	41.76%	1.60	0.65%
2401.32	11.02	247.02	17.65	247.15	19.29	247.37	25.02	249.07	6.63	60.16%	0.13	-0.05%	1.64	9.29%	0.22	0.09%	7.37	41.76%	1.92	0.78%
2367.56	11.02	246.62	17.65	246.95	19.29	247.33	25.02	249.07	6.63	60.16%	0.33	-0.13%	1.64	9.29%	0.38	0.15%	7.37	41.76%	2.12	0.86%
2338.9	11.02	246.13	17.65	246.97	19.29	247.33	25.02	249.07	6.63	60.16%	0.84	-0.34%	1.64	9.29%	0.36	0.15%	7.37	41.76%	2.10	0.85%
2310.58	11.02	245.92	17.65	246.96	19.29	247.33	25.02	249.07	6.63	60.16%	1.04	-0.42%	1.64	9.29%	0.37	0.15%	7.37	41.76%	2.11	0.85%
2264.91	11.02	245.97	17.65	246.96	19.29	247.33	25.02	249.07	6.63	60.16%	0.99	-0.40%	1.64	9.29%	0.37	0.15%	7.37	41.76%	2.11	0.85%
2209.07	11.02	245.95	17.65	246.95	19.29	247.32	25.02	249.07	6.63	60.16%	1.00	-0.40%	1.64	9.29%	0.37	0.15%	7.37	41.76%	2.12	0.86%
2169.34	11.02	245.94	17.65	246.95	19.29	247.32	25.02	249.07	6.63	60.16%	1.01	-0.41%	1.64	9.29%	0.37	0.15%	7.37	41.76%	2.12	0.86%
2156.52	11.02	245.92	17.65	246.91	19.29	247.28	25.02	249.04	6.63	60.16%	0.99	-0.40%	1.64	9.29%	0.37	0.15%	7.37	41.76%	2.13	0.86%
2093.17	12.74	243.33	20.6	243.55	22.67	243.61	29.41	243.76	7.86	61.70%	0.22	-0.09%	2.07	10.05%	0.06	0.02%	8.81	42.77%	0.21	0.09%
2079.21	12.74	242.95	20.6	243.23	22.67	243.29	29.41	243.48	7.86	61.70%	0.28	-0.12%	2.07	10.05%	0.06	0.02%	8.81	42.77%	0.25	0.10%
2055.25	12.74	242.64	20.6	242.86	22.67	242.91	29.41	243.07	7.86	61.70%	0.22	-0.09%	2.07	10.05%	0.05	0.02%	8.81	42.77%	0.21	0.09%
2016.73	12.74	241.55	20.6	241.79	22.67	241.84	29.41	241.99	7.86	61.70%	0.24	-0.10%	2.07	10.05%	0.05	0.02%	8.81	42.77%	0.20	0.08%
1965.37	12.74	241.24	20.6	241.48	22.67	241.55	29.41	241.78	7.86	61.70%	0.24	-0.10%	2.07	10.05%	0.07	0.03%	8.81	42.77%	0.30	0.12%
1917.19	12.74	240.74	20.6	241.03	22.67	241.05	29.41	241.09	7.86	61.70%	0.29	-0.12%	2.07	10.05%	0.02	0.01%	8.81	42.77%	0.06	0.02%
1875.03	12.74	240.07	20.6	240.33	22.67	240.4	29.41	240.53	7.86	61.70%	0.26	-0.11%	2.07	10.05%	0.07	0.03%	8.81	42.77%	0.20	0.08%
1862.94	12.74	239.29	20.6	239.54	22.67	239.57	29.41	239.9	7.86	61.70%	0.25	-0.10%	2.07	10.05%	0.03	0.01%	8.81	42.77%	0.36	0.15%
1801.09	11.24	238.55	15.44	238.69	16.97	238.73	21.91	238.95	4.2	37.37%	0.14	-0.06%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.26	0.11%
1765.21	11.24	238.05	15.44	238.29	16.97	238.37	21.91	238.51	4.2	37.37%	0.24	-0.10%	1.53	9.91%	0.08	0.03%	6.47	41.90%	0.22	0.09%
1718.91	11.24	237.06	15.44	237.19	16.97	237.24	21.91	237.34	4.2	37.37%	0.13	-0.05%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.15	0.06%
1661.15	11.24	236.48	15.44	236.59	16.97	236.62	21.91	236.76	4.2	37.37%	0.11	-0.05%	1.53	9.91%	0.03	0.01%	6.47	41.90%	0.17	0.07%
1612.45	11.24	235.57	15.44	235.73	16.97	235.77	21.91	235.86	4.2	37.37%	0.16	-0.07%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.13	0.06%
1568.23	11.24	234.44	15.44	234.56	16.97	234.59	21.91	234.81	4.2	37.37%	0.12	-0.05%	1.53	9.91%	0.03	0.01%	6.47	41.90%	0.25	0.11%
1541.88	11.24	233.83	15.44	233.99	16.97	234.05	21.91	234.23	4.2	37.37%	0.16	-0.07%	1.53	9.91%	0.06	0.03%	6.47	41.90%	0.24	0.10%
1489.67	11.24	233.23	15.44	233.37	16.97	233.43	21.91	233.6	4.2	37.37%	0.14	-0.06%	1.53	9.91%	0.06	0.03%	6.47	41.90%	0.23	0.10%
1435.23	11.24	231.21	15.44	231.32	16.97	231.37	21.91	231.49	4.2	37.37%	0.11	-0.05%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.17	0.07%
1380.7	11.24	230.27	15.44	230.4	16.97	230.44	21.91	230.55	4.2	37.37%	0.13	-0.06%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.15	0.07%
1332.54	11.24	228.88	15.44	229.03	16.97	229.08	21.91	229.24	4.2	37.37%	0.15	-0.07%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.21	0.09%
1302.84	11.24	227.69	15.44	227.89	16.97	227.94	21.91	228.07	4.2	37.37%	0.20	-0.09%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.18	0.08%
1263.71	11.24	226.37	15.44	226.51	16.97	226.55	21.91	226.69	4.2	37.37%	0.14	-0.06%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.18	0.08%
1215.31	11.24	224.99	15.44	225.13	16.97	225.18	21.91	225.32	4.2	37.37%	0.14	-0.06%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.19	0.08%
1168.81	11.24	223.79	15.44	223.98	16.97	224.04	21.91	224.23	4.2	37.37%	0.19	-0.08%	1.53	9.91%	0.06	0.03%	6.47	41.90%	0.25	0.11%
1130.29	11.24	222.7	15.44	222.85	16.97	222.9	21.91	223.04	4.2	37.37%	0.15	-0.07%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.19	0.09%
1111.06	11.24	222.18	15.44	222.37	16.97	222.43	21.91	222.62	4.2	37.37%	0.19	-0.09%	1.53	9.91%	0.06	0.03%	6.47	41.90%	0.25	0.11%
1084.58	11.24	221.57	15.44	221.69	16.97	221.75	21.91	221.87	4.2	37.37%	0.12	-0.05%	1.53	9.91%	0.06	0.03%	6.47	41.90%	0.18	0.08%
1048.15	11.24	220.61	15.44	220.77	16.97	220.83	21.91	221	4.2	37.37%	0.16	-0.07%	1.53	9.91%	0.06	0.03%	6.47	41.90%	0.23	0.10%

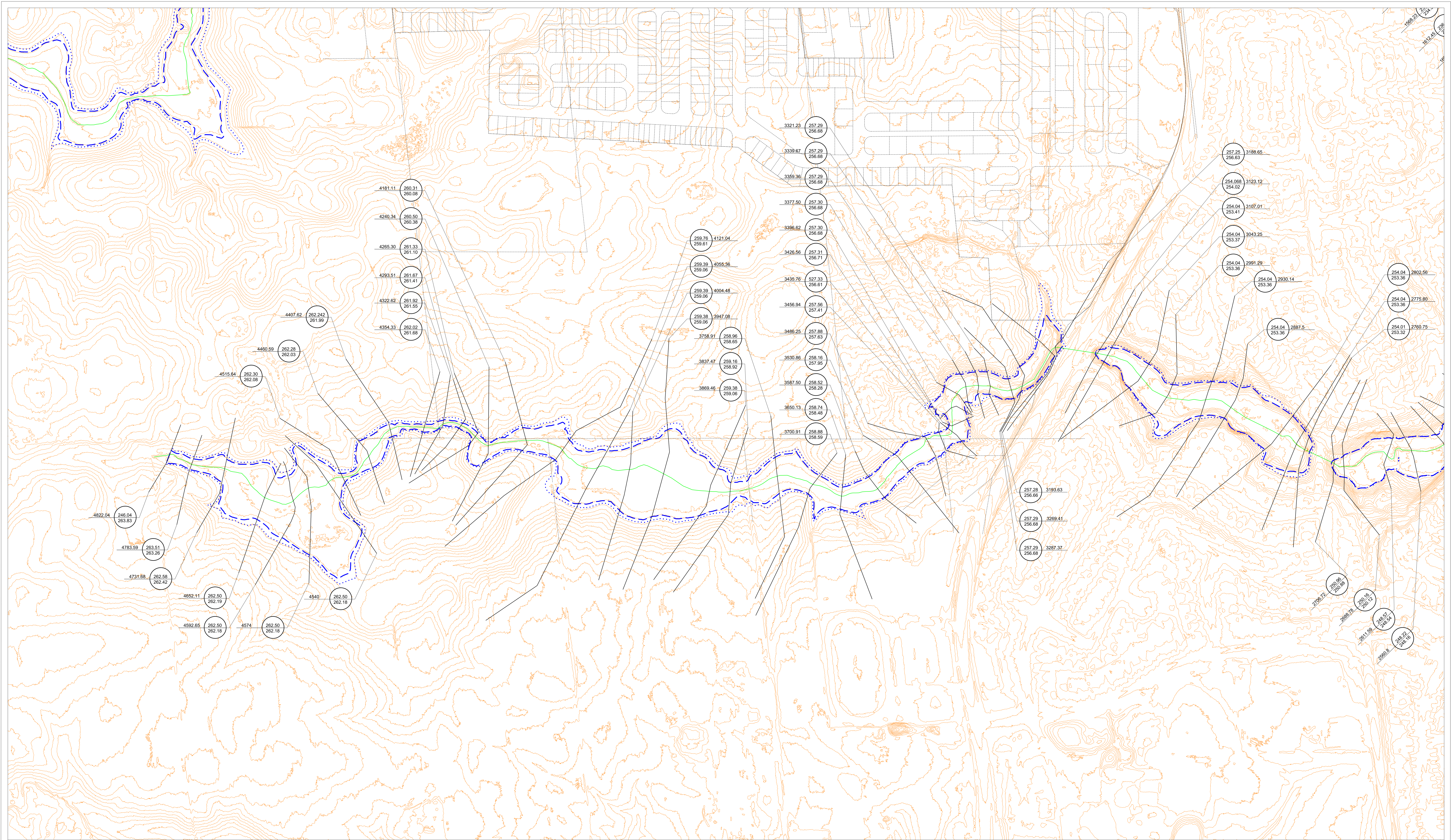
	TRCA		SCE Modified		SCE Post Dev		BNHG Post Dev		Comparison (SCE Modified & TRCA Future Model Results)				Comparison (SCE Post Dev & SCE Modified Results)				Comparison (BNHG Post Dev & SCE Modified Results)			
	A	B	C	D	E	F	G	H	Flows		Water Surface Elevation		Flows		Water Surface Elevation		Flows		Water Surface Elevation	
	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	Q Total	W.S. Elev	[C - A]	[C - A] / [A]	[D - B]	[D - B] / [B]	[E - C]	[E - C] / [C]	[F - D]	[F - D] / [D]	[G - C]	[G - C] / [C]	[H - D]	[H - D] / [D]
	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	(m3/s)	(m)	m ³ /s	%	m	%	m ³ /s	%	m	%	m ³ /s	%	m	%
1028.59	11.24	220.25	15.44	220.43	16.97	220.49	21.91	220.66	4.2	37.37%	0.18	-0.08%	1.53	9.91%	0.06	0.03%	6.47	41.90%	0.23	0.10%
996.29	11.24	219.64	15.44	219.76	16.97	219.8	21.91	219.92	4.2	37.37%	0.12	-0.05%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.16	0.07%
965.91	11.24	219.12	15.44	219.23	16.97	219.26	21.91	219.37	4.2	37.37%	0.11	-0.05%	1.53	9.91%	0.03	0.01%	6.47	41.90%	0.14	0.06%
908.46	11.24	218.21	15.44	218.33	16.97	218.37	21.91	218.53	4.2	37.37%	0.12	-0.05%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.20	0.09%
879.06	11.24	217.71	15.44	217.86	16.97	217.91	21.91	218.05	4.2	37.37%	0.15	-0.07%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.19	0.09%
847.19	11.24	217.31	15.44	217.44	16.97	217.48	21.91	217.58	4.2	37.37%	0.13	-0.06%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.14	0.06%
820.81	11.24	217.1	15.44	217.2	16.97	217.23	21.91	217.31	4.2	37.37%	0.10	-0.05%	1.53	9.91%	0.03	0.01%	6.47	41.90%	0.11	0.05%
807.34	11.24	216.94	15.44	216.99	16.97	217.01	21.91	217.07	4.2	37.37%	0.05	-0.02%	1.53	9.91%	0.02	0.01%	6.47	41.90%	0.08	0.04%
794.25	11.24	216.32	15.44	216.48	16.97	216.55	21.91	216.61	4.2	37.37%	0.16	-0.07%	1.53	9.91%	0.07	0.03%	6.47	41.90%	0.13	0.06%
770.45	11.24	215.95	15.44	216.11	16.97	216.15	21.91	216.39	4.2	37.37%	0.16	-0.07%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.28	0.13%
738	11.24	215.39	15.44	215.62	16.97	215.67	21.91	215.85	4.2	37.37%	0.23	-0.11%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.23	0.11%
686.51	11.24	214.8	15.44	214.91	16.97	214.95	21.91	215.07	4.2	37.37%	0.11	-0.05%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.16	0.07%
661.93	11.24	214.16	15.44	214.31	16.97	214.36	21.91	214.51	4.2	37.37%	0.15	-0.07%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.20	0.09%
615.04	11.24	213.71	15.44	213.67	16.97	213.72	21.91	213.86	4.2	37.37%	-0.04	0.02%	1.53	9.91%	0.05	0.02%	6.47	41.90%	0.19	0.09%
580.25	11.24	213.19	15.44	213.41	16.97	213.43	21.91	213.51	4.2	37.37%	0.22	-0.10%	1.53	9.91%	0.02	0.01%	6.47	41.90%	0.10	0.05%
544.59	11.24	213.08	15.44	212.85	16.97	212.86	21.91	212.92	4.2	37.37%	-0.23	0.11%	1.53	9.91%	0.01	0.00%	6.47	41.90%	0.07	0.03%
515.79	11.24	212.67	15.44	212.84	16.97	212.84	21.91	212.84	4.2	37.37%	0.17	-0.08%	1.53	9.91%	0.00	0.00%	6.47	41.90%	0.00	0.00%
490.99	11.24	212.19	15.44	212.25	16.97	212.27	21.91	212.33	4.2	37.37%	0.06	-0.03%	1.53	9.91%	0.02	0.01%	6.47	41.90%	0.08	0.04%
454.35	11.24	212.07	15.44	212.14	16.97	211.99	21.91	212.23	4.2	37.37%	0.07	-0.03%	1.53	9.91%	-0.15	-0.07%	6.47	41.90%	0.09	0.04%
325.04	11.24	211.46	15.44	211.63	16.97	211.67	21.91	211.8	4.2	37.37%	0.17	-0.08%	1.53	9.91%	0.04	0.02%	6.47	41.90%	0.17	0.08%
257.06	11.24	211.37	15.44	211.56	16.97	211.59	21.91	211.72	4.2	37.37%	0.19	-0.09%	1.53	9.91%	0.03	0.01%	6.47	41.90%	0.16	0.08%
151.19	11.24	211.09	15.44	211.3	16.97	211.29	21.91	211.25	4.2	37.37%	0.21	-0.10%	1.53	9.91%	-0.01	0.00%	6.47	41.90%	-0.05	-0.02%

Note:
The TRCA Model values are from the TRCA HECRAS model, not the TRCA VO hydrology model. The TRCA HECRAS model used inputs from the *Existing Conditions Design Storms VO Model (2017)* with some reaches using a 6 hour storm and others with a 12 hour storm. The 100-year hydrology flows presented under the other model scenarios are a result of the *TRCA future conditions model for large storms VO Model*. Thus differences between the TRCA model and SCE Modified model appear inflated.

Cells are highlighted with the change in WSE is greater than an absolute value of 0.02 m

Appendix F

Floodplain Figures



NO.	DESCRIPTION	BY	DATE

LEGEND	Cross-Section Label	Cross-Section Leader Line
2015 Regional Flood Elevation (m)	14.060	172.00
2004 Regional Flood Elevation (m)	172.00	172.00

REGULATORY FLOOD ELEVATION IS THE HIGHER OF THE TWO ELEVATIONS DISPLAYED.

LEGEND	DESCRIPTION
	Contour, Index
	Intermediate
	Supplementary
	Depression
	Spot Elevation, Water Level
	River, Stream, Canal
	Approximate Alignment
	Shoreline
	Lake
	Flooded Land
	Marsh, Swamp
	Ditch, Drain
	Roads
	Reservoir
	Falls
	Building, Garage, Shed
	Under Construction, Foundation
	Runs
	Road, Hard Surface, with Median
	Driveway, or Loose Surface
	Farm Lane, Cart Track, Wagon Road
	Footpath, Trail
	Bridge, Footbridge
	Fence
	Culvert, Cut and Fill
	Canal
	Dam, Beaver Dam
	Pipeline
	Airport Runway
	Power Transmission Line, with Poles, with Pylons
	Railway
	Wooded Area
	Chimney
	Well
	Proposed Flood Line
	100 Year Flood Line

This map was compiled photogrammetrically from 1:10 000 aerial photography exposed in April 1977. The vertical datum is mean sea level as established by the Geodetic Survey of Canada. North American Datum, 1927, U.T.M. 6° projection Zone 17, Central Meridian 89° W. Transformed to North American Datum 1983 Zone 17, Central Meridian 89° W. in 2007. Grid Interval 100 metres.

PLEASE NOTE: FLOODLINE ELEVATIONS ARE SUBJECT TO CHANGE DUE TO REVISED INFORMATION.

PLEASE NOTE: THIS MAP WAS ORIGINALLY COMPILED BY MARSHALL MACLAIN INCORPORATED, IN 1977. THIS MAP WAS DIGITIZED BY GSP GEOGRAPHICS INC. IN 2007.

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PLEASE NOTE: THE PROFESSIONAL ENGINEERS STAMP VERIFIES THE FLOOD LINE AND ASSOCIATED DATA NOT THE MAP DATA UNLESS OTHERWISE NOTED.

FLOOD PLAN MAPPING PROGRAM

FLOODLINE APPROVED DATE: 2004-09-17

TORONTO AND REGION Conservation
for The Living City

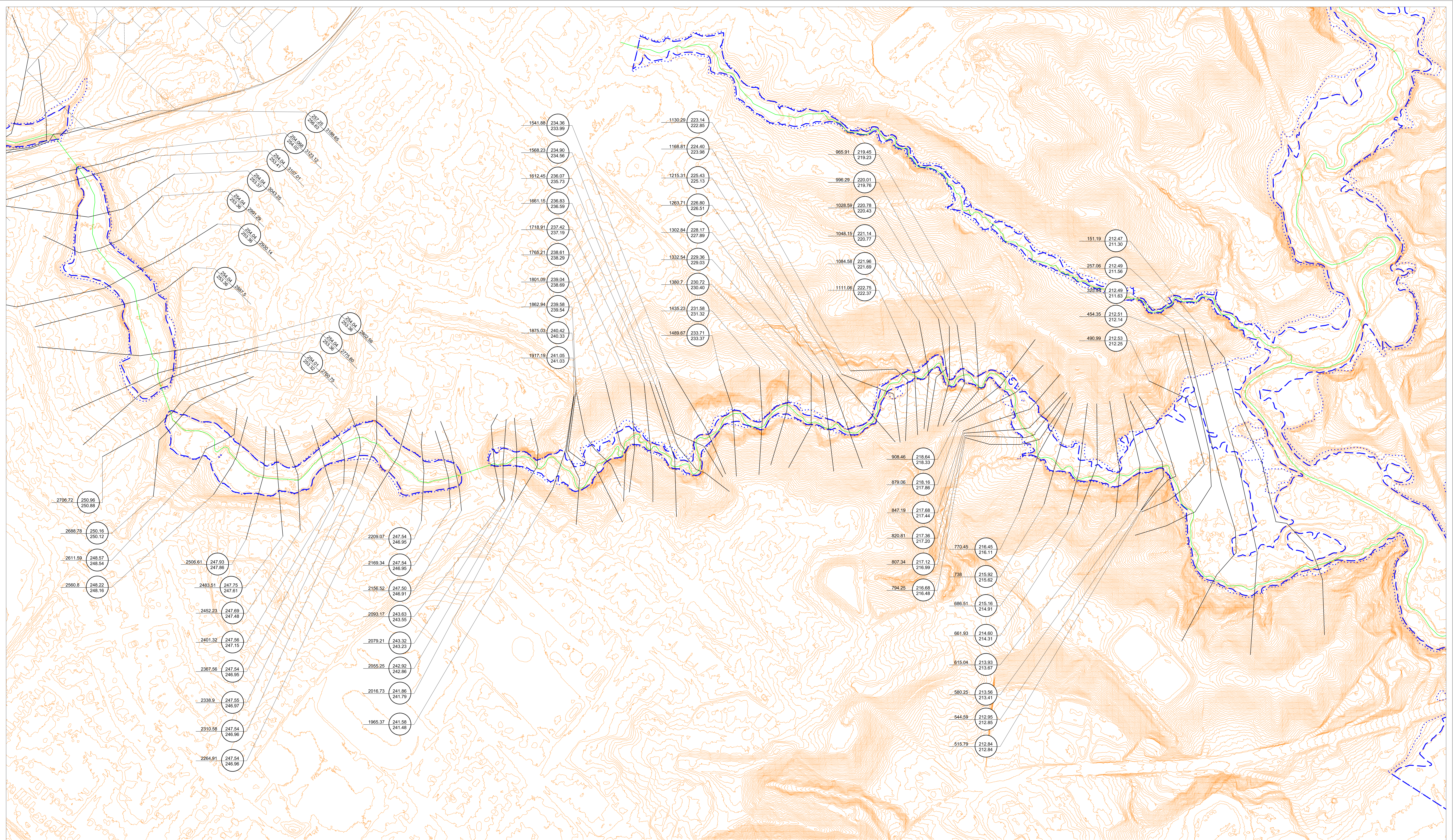
5 Shoreham Drive Downsview Ontario M3N 1S4 (416) 661-6600

Scale 1:2000

CONTOUR INTERVAL 1.0 METRES.

HUMBER RIVER

SHEET No. EX-1



REVISIONS			
NO.	DESCRIPTION	BY	DATE

LEGEND	
Cross-Section Label	Cross-Section Leader Line
2015 Regional Flood Elevation (m)	1001.843
Cross-Section Number — 14.060	172.00
2004 Regional Flood Elevation (m)	172.00

REGULATORY FLOOD ELEVATION IS THE HIGHER OF THE TWO ELEVATIONS DISPLAYED.

LEGEND	
Contour, Index	Road, Hard Surface, with Median
Intermediate	Driveway, or Loose Surface
Supplementary	Farm Lane, Cart Track, Wagon Road
Apparent	Footpath, Trail
Depression	Bridge, Footbridge
Spot Elevation, Water Level	Fence
Silver, Stream, Canal	Can, Cul and Fill
Approximate Alignment	Culvert
Disappearing	Dam, Beaver Dam
Spill	Pipeline
Lake	Airport Runway
Flooded Land	Power Transmission Line, with Poles, with Pylons
Marsh, Swamp	Railway
Can, Drain	Wooded Area
Roads	Chimney
Reservoir	Hedge
Falls	Wall
Building, Garage, Shed	Regional Flood Line
Under Construction, Foundation	100 Year Flood Line
Runs	

This map was compiled photogrammetrically from 1/10 000 aerial photography exposed in April 1977. The vertical datum is mean sea level as established by the Geodetic Survey of Canada. North American Datum, 1927, U.T.M. 6° projection Zone 17, Central Meridian 89° W. Transformed to North American Datum, 1983 Zone 17, Central Meridian 89° W. in 2007. Grid Interval 100 metres.

PLEASE NOTE: FLOODLINE ELEVATIONS ARE SUBJECT TO CHANGE DUE TO REVISED INFORMATION.

PLEASE NOTE: THIS MAP WAS ORIGINALLY COMPILED BY MARSHALL MACKLIN MCKINNON LTD. IN 1977. THIS MAP WAS DIGITIZED BY GSP GEOGRAPHICS INC. IN 2007.

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FLOOD PLAN MAPPING PROGRAM

FLOODLINE APPROVED DATE: 2004-09-17

TORONTO AND REGION Conservation
for The Living City

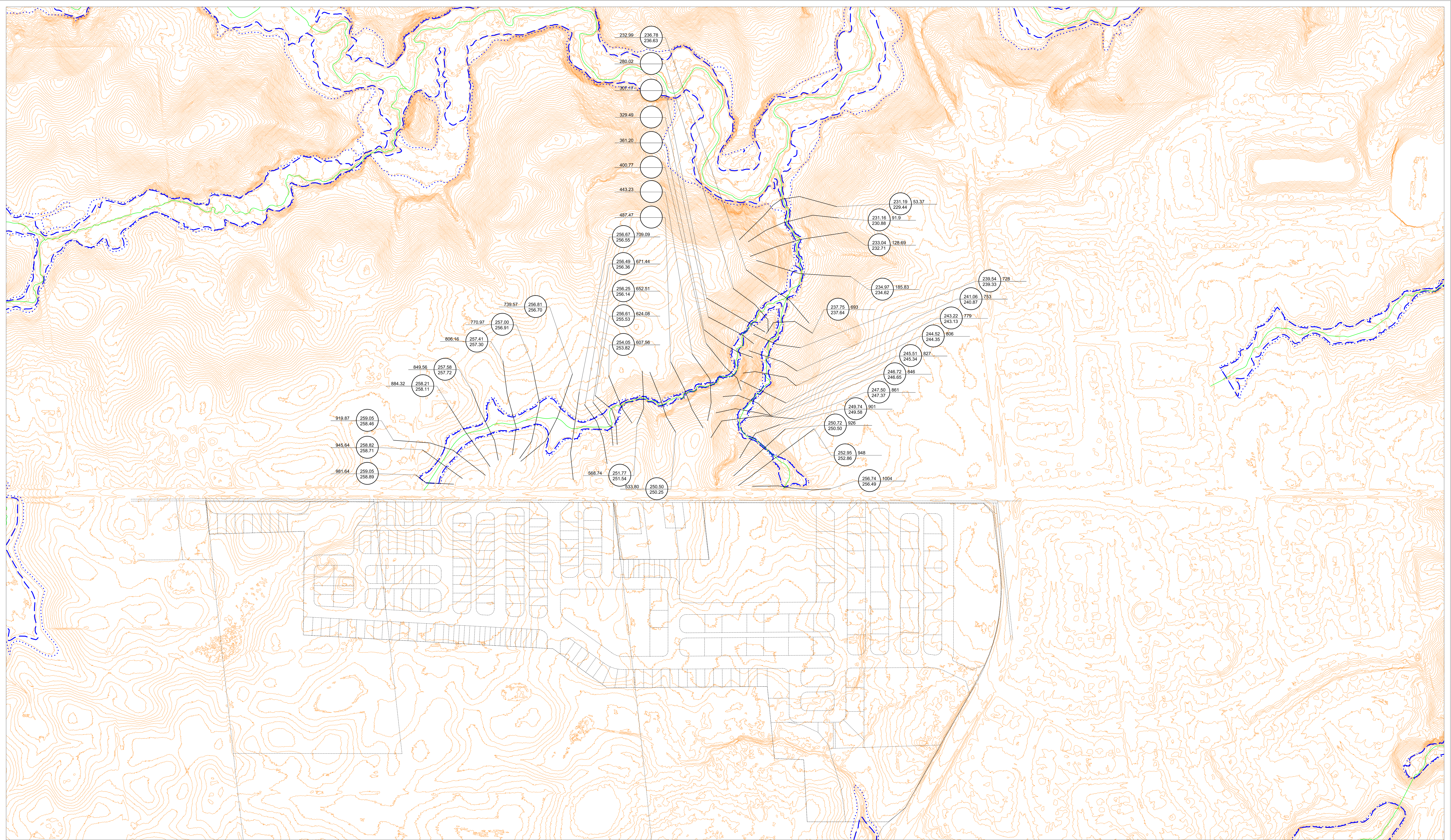
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Scale 1:2000

CONTOUR INTERVAL 1.0 METRES.

HUMBER RIVER

SHEET No. EX-2



REVISIONS			
NO.	DESCRIPTION	BY	DATE

LEGEND	
Cross-Section Label	Cross-Section Leader Line
2015 Regional Flood Elevation (m)	1001.843
Cross-Section Number — 14.060	172.00
2004 Regional Flood Elevation (m)	172.00

REGULATORY FLOOD ELEVATION IS THE HIGHER OF THE TWO ELEVATIONS DISPLAYED.

LEGEND	
Contour, Index	Road, Hard Surface, with Median
Intermediate	Driveway, or Loose Surface
Supplementary	Farm Lane, Cart Track, Wagon Road
Approximate	Footpath, Trail
Depression	Bridge, Footbridge
Spot Elevation, Water Level	Fence
Sliver, Stream, Canal	Cut, Cut and Fill
Approximate Alignment	Culvert
Dispersing	Dam, Beaver Dam
Split	Pipeline
Lake	Airport Runway
Flooded Land	Power Transmission Line, with Poles, with Pylons
Marsh, Swamp	Railway
Drain, Drain	Wooded Area
Roads	Chimney
Reservoir	Hedge
Falls	Wall
Building, Garage, Shed	Proposed Flood Line
Under Construction, Foundation	100 Year Flood Line
Runs	

This map was compiled photogrammetrically from 1/10 000 aerial photography exposed in April 1977. The vertical datum is mean sea level as established by the Geodetic Survey of Canada. North American Datum, 1927, U.T.M. 6° projection Zone 17, Central Meridian 89° W. Transformed to North American Datum, 1983 Zone 17, Central Meridian 89° W. in 2007. Grid Interval 100 metres.

PLEASE NOTE: FLOODLINE ELEVATIONS ARE SUBJECT TO CHANGE DUE TO REVISED INFORMATION.

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FLOOD PLAN MAPPING PROGRAM

FLOODLINE APPROVED DATE: 2004-09-17

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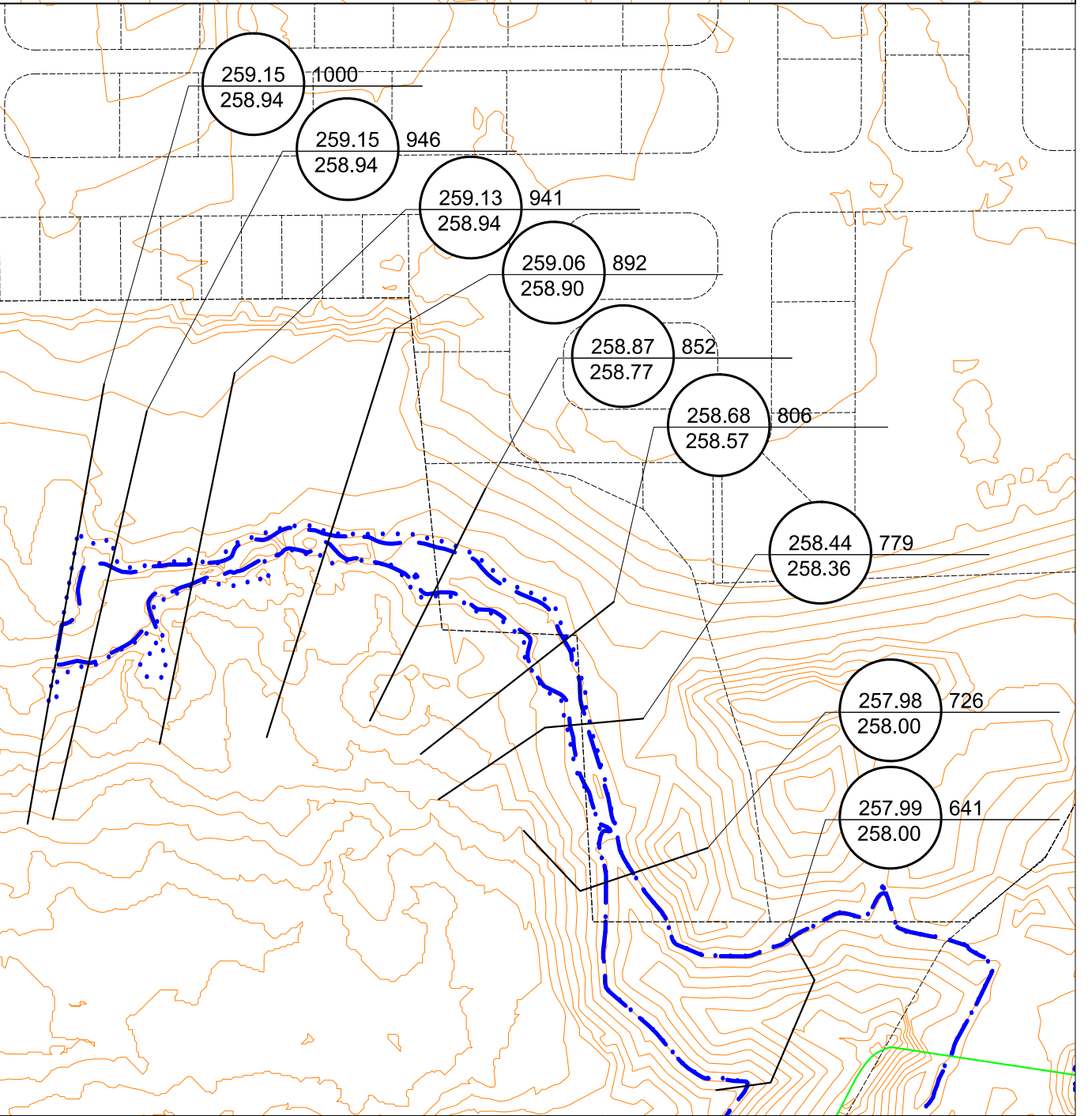
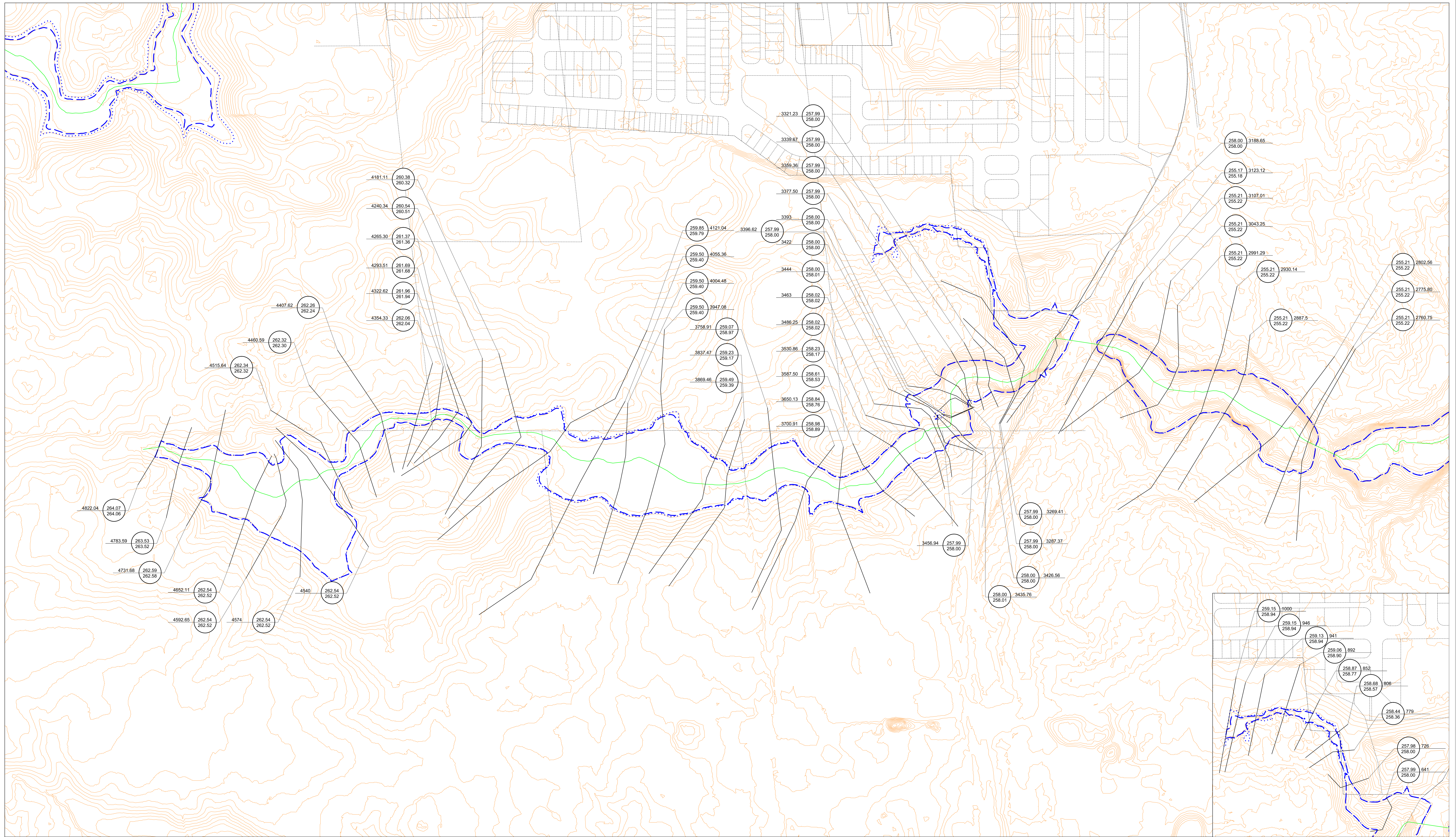
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Scale 1:2000

CONTOUR INTERVAL 1.0 METRES.

HUMBER RIVER

SHEET No. EX-3



NO.	DESCRIPTION	BY	DATE

LEGEND

<ul style="list-style-type: none"> Contour, Index Intermediate Supplementary Approximate Depression Spot Elevation, Water Level Sliver, Stream, Canal Approximate Alignment Shoreline Spill Lake Flooded Land Marsh, Swamp Cliff, Drain Roads Railways Falls Building, Garage, Shed Other Construction, Foundation Runs 	<ul style="list-style-type: none"> Road, Hard Surface, with Median Driveway, or Loose Surface Farm Lane, Cart Track, Mason Road Footpath, Trail Bridge, Footbridge Fence Cul, Cul and Fill Canal Dam, Beaver Dam Pipeline Airport Runway Power Transmission Line, with Poles, with Pylons Railway Wooded Area Chimney Hedge Wall Regional Flood Line 100 Year Flood Line
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This map was compiled photogrammetrically from 1/10 000 aerial photography exposed in April 1977. The vertical datum is mean sea level as established by the Geodetic Survey of Canada. North American Datum, 1927, U.T.M. 6° projection Zone 17, Central Meridian 89° W. in 2007. Grid Interval 100 metres.

PLEASE NOTE:
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FLOOD PLAN MAPPING PROGRAM

FLOODLINE APPROVED DATE: 2004-09-17

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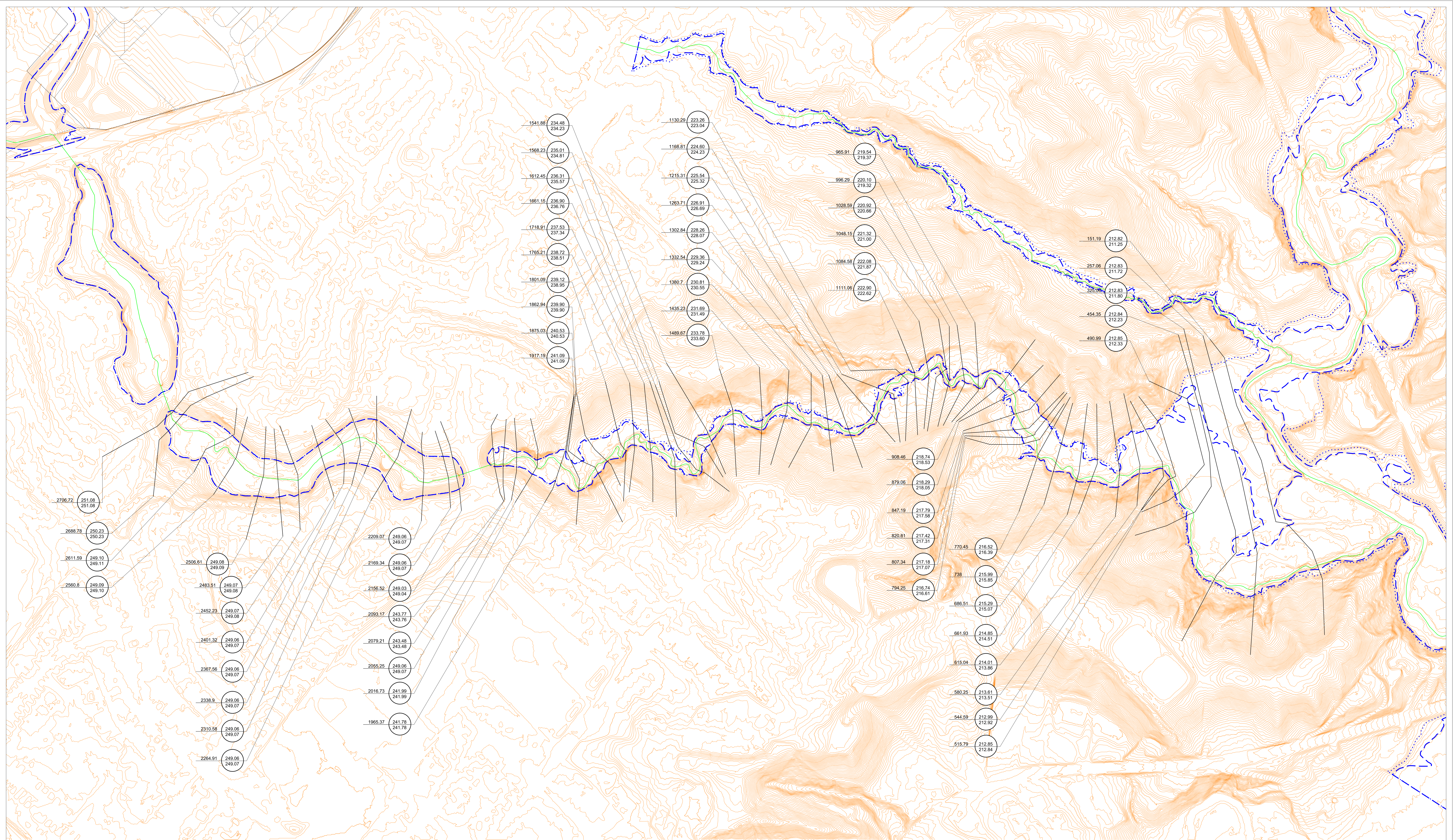
5 Shoreham Drive Downsview Ontario M3N 1S4 (416) 661-6600

Scale 1:2000

CONTOUR INTERVAL 1.0 METRES:

HUMBER RIVER

SHEET No. PROP-1



NO.	DESCRIPTION	BY	DATE

LEGEND	Cross-Section Label	Cross-Section Leader Line
2015 Regional Flood Elevation (m)	14.060	172.00
2004 Regional Flood Elevation (m)	172.00	172.00

REGULATORY FLOOD ELEVATION IS THE HIGHER OF THE TWO ELEVATIONS DISPLAYED.

LEGEND
Contour, Index
Intermediate
Supplementary
Apparent
Depression
Spot Elevation, Water Level
River, Stream, Canal
Approximate Alignment
Shoreline
Spill
Lake
Flooded Land
Marsh, Swamp
Cliff, Drain
Roads
Railroad
Fence
Building, Garage, Shed
Other Construction, Foundation
Runs
Road, Hard Surface, with Median
Driveway, or Loose Surface
Farm Lane, Cart Track, Wagon Road
Footpath, Trail
Bridge, Footbridge
Fence
Culvert, Cui and Fill
Culvert
Dam, Beaver Dam
Pipeline
Alloyed Runway
Power Transmission Line, with Poles, with Pylons
Railway
Wooded Area
Chimney
Well
Regional Flood Line
100 Year Flood Line

This map was compiled photogrammetrically from 1/10 000 aerial photography exposed in April 1977. The vertical datum is mean sea level as established by the Geodetic Survey of Canada. North American Datum, 1927, U.T.M. 6° projection Zone 17, Central Meridian 81° W. Transformed to North American Datum, 1983 Zone 17, Central Meridian 81° W. in 2007. Grid Interval 100 metres.

PLEASE NOTE: FLOODLINE ELEVATIONS ARE SUBJECT TO CHANGE DUE TO REVISED INFORMATION.

PLEASE NOTE: THIS MAP WAS ORIGINALLY COMPILED BY MARSHALL MACLUN MCKENNA LTD. IN 1977. THIS MAP WAS DIGITIZED BY GSP GEOGRAPHICS INC. IN 2007.

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FLOOD PLAN MAPPING PROGRAM

FLOODLINE APPROVED DATE: 2004-09-17

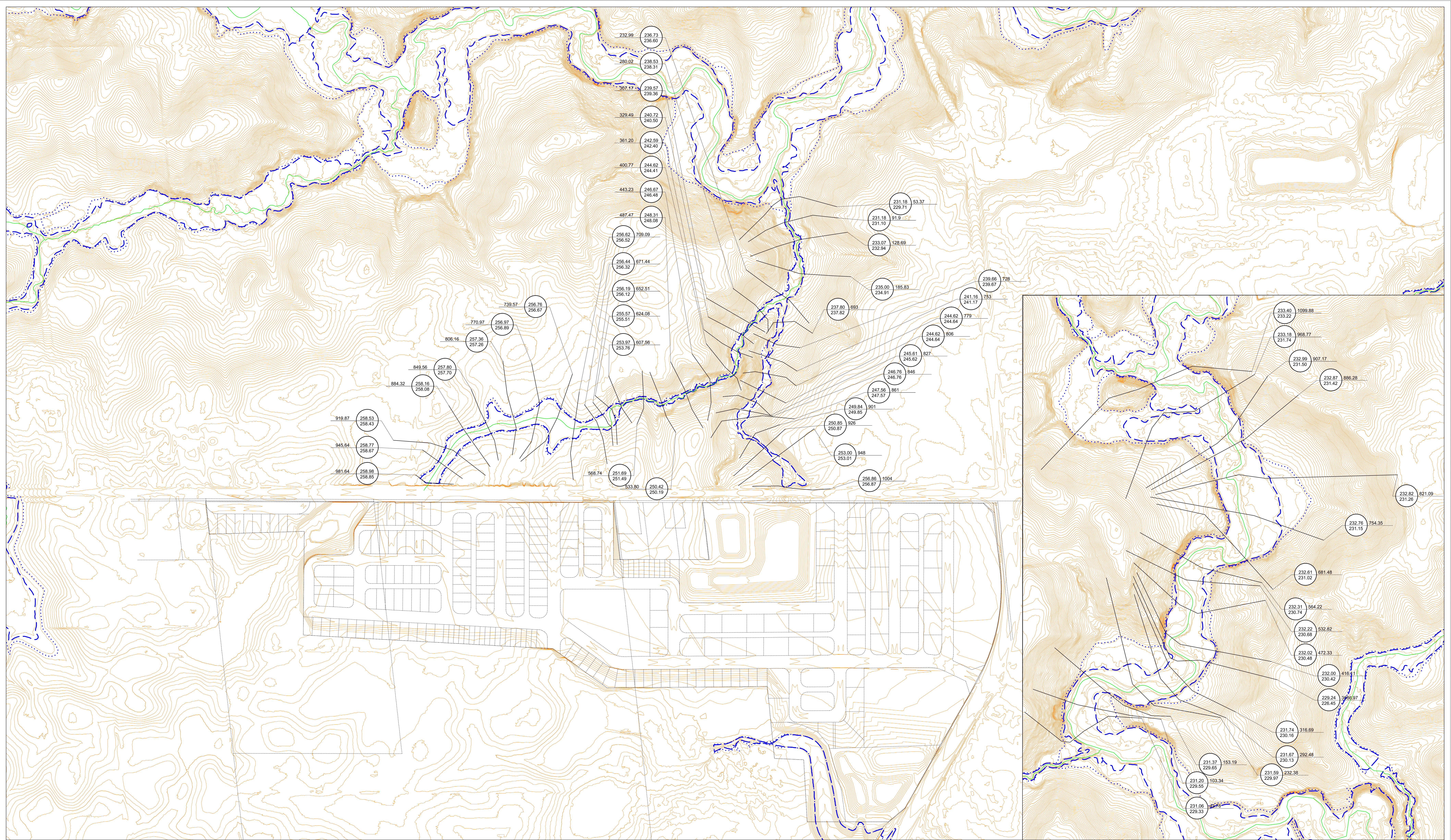
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Scale 1:2000

CONTOUR INTERVAL 1.0 METRES.

HUMBER RIVER

SHEET No. PROP-2



REVISIONS			
NO.	DESCRIPTION	BY	DATE

LEGEND	
Cross-Section Label	Cross-Section Leader Line
2015 Regional Flood Elevation (m)	1001.843
Cross-Section Number — 14.060	172.00
2004 Regional Flood Elevation (m)	172.00

REGULATORY FLOOD ELEVATION IS THE HIGHER OF THE TWO ELEVATIONS DISPLAYED.

LEGEND	
Contour, Index	Road, Hard Surface, with Median
Intermediary	Driveway, or Loose Surface
Supplementary	Farm Lane, Cart Track, Mason Road
Approximate	Footpath, Trail
Depression	Bridge, Footbridge
Spot Elevation, Water Level	Fence
Slope Elevation, Canal	Culvert, Culvert and Fill
Approximate Alignment	Culvert
Dissemination	Dam, Beaver Dam
Spill	Pipeline
Alight Runway	Power Transmission Line, with Poles, with Pylons
Flashed Land	Railway
Marsh, Swamp	Wooded Area
Cliff, Drain	Chimney
Roads	Hedge
Reservoir	Wall
Falls	Regard Flood Line
Building, Garage, Shed	100 Year Flood Line
Other Construction, Foundation	
Runs	

This map was compiled photogrammetrically from 1/10 000 aerial photography exposed in April 1977. The vertical datum is mean sea level as established by the Geodetic Survey of Canada. North American Datum, 1927, U.T.M. 6° projection Zone 17, Central Meridian 89° W. Transformed to North American Datum, 1983 Zone 17, Central Meridian 89° W. in 2007. Grid Interval 100 metres.

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FLOOD PLAN MAPPING PROGRAM

FLOODLINE APPROVED DATE: 2004-09-17

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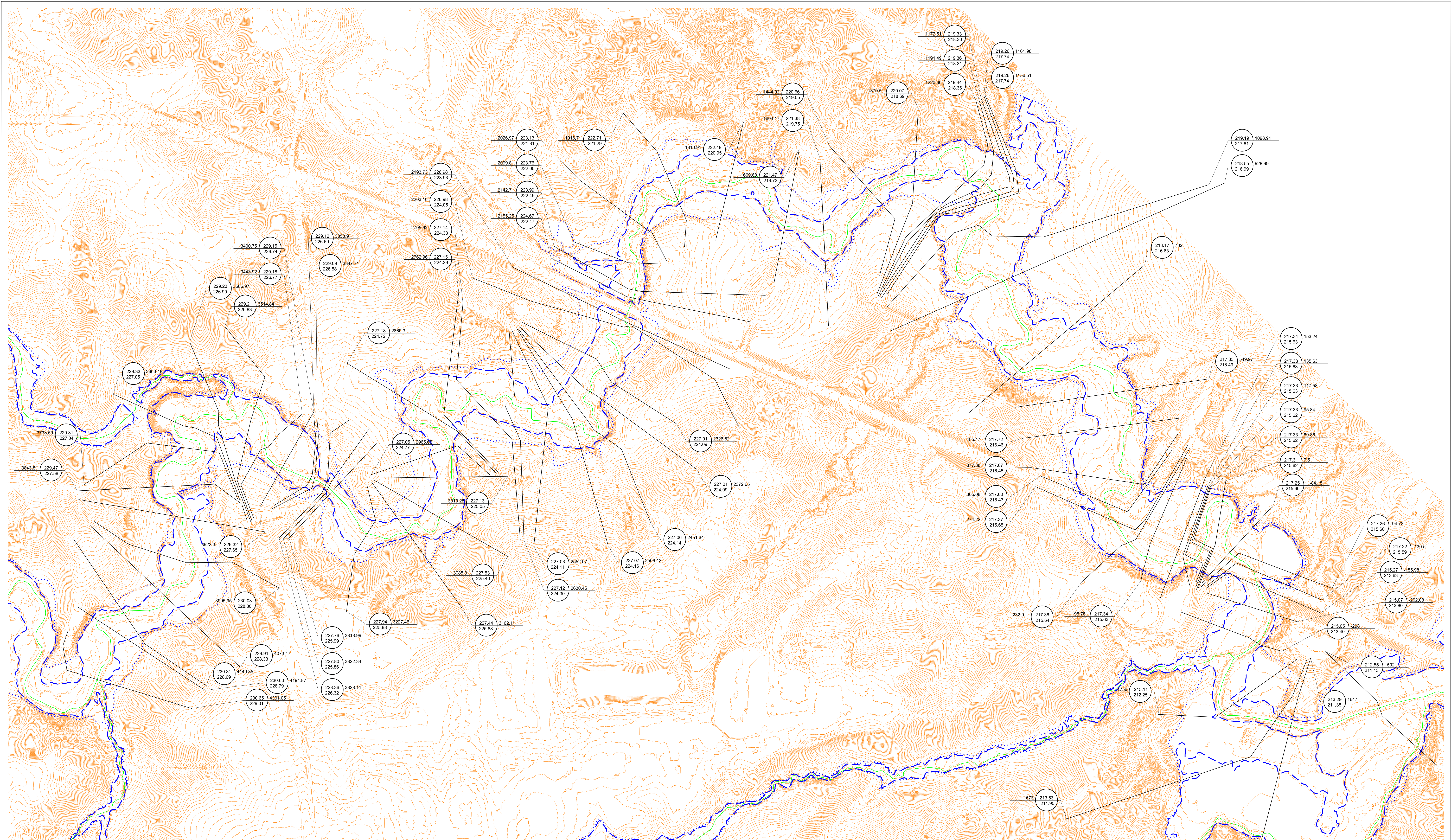
5 Shoreham Drive Downsview Ontario M3N 1S4 (416) 661-6600

Scale 1:2000

CONTOUR INTERVAL 1.0 METRES.

HUMBER RIVER

SHEET No. PROP-3



REVISIONS			
NO.	DESCRIPTION	BY	DATE

LEGEND	
Cross-Section Label	Cross-Section Leader Line
2015 Regional Flood Elevation (m)	1001.843
Cross-Section Number — 14.060	172.00
2004 Regional Flood Elevation (m)	172.00

REGULATORY FLOOD ELEVATION IS THE HIGHER OF THE TWO ELEVATIONS DISPLAYED.

LEGEND	
Contour, Index	Road, Hard Surface, with Median
Intermediate	Highway, or Loose Surface
Supplementary	Farm Lane, Cart Track, Mason Road
Approximate	Footpath, Trail
Depression	Bridge, Footbridge
Spot Elevation, Water Level	Fence
Silver, Stream, Canal	Canal, Cul and Fill
Approximate Alignment	Canal
Shoreline	Dam, Beaver Dam
Spill	Pipeline
Lake	Alloyed Runway
Flooded Land	Power Transmission Line, with Poles, with Pylons
Marsh, Swamp	Railway
Grass, Drain	Wooded Area
Roads	Chimney
Reservoir	Well
Falls	100 Year Flood Line
Building, Garage, Shed	
Under Construction, Foundation	
Runs	

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PLEASE NOTE: FLOODLINE ELEVATIONS ARE SUBJECT TO CHANGE DUE TO REVISED INFORMATION.

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FLOOD PLAN MAPPING PROGRAM

FLOODLINE APPROVED DATE: 2004-09-17

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Scale 1:2000

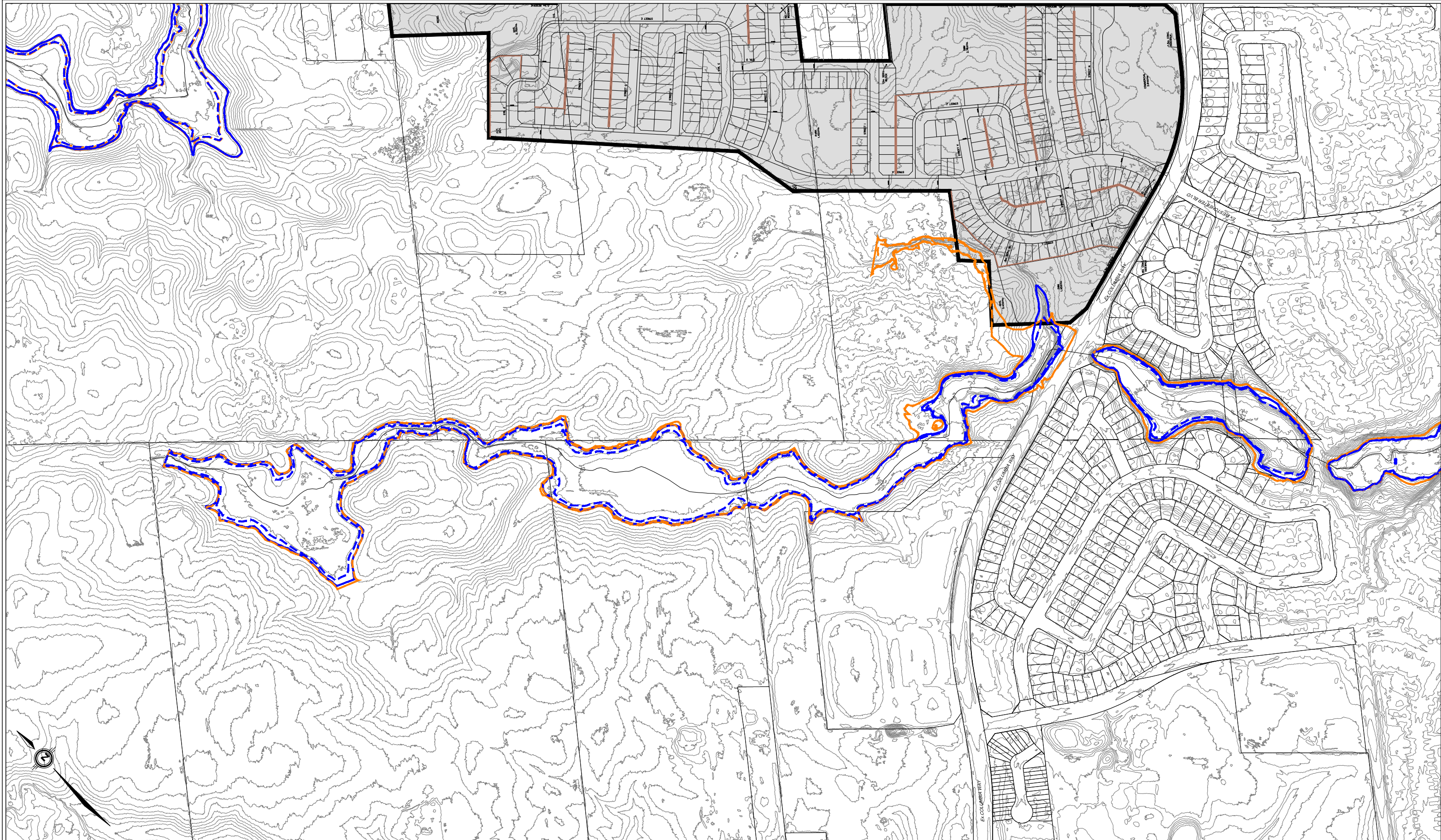
CONTOUR INTERVAL: 1.0 METRES.






HUMBER RIVER

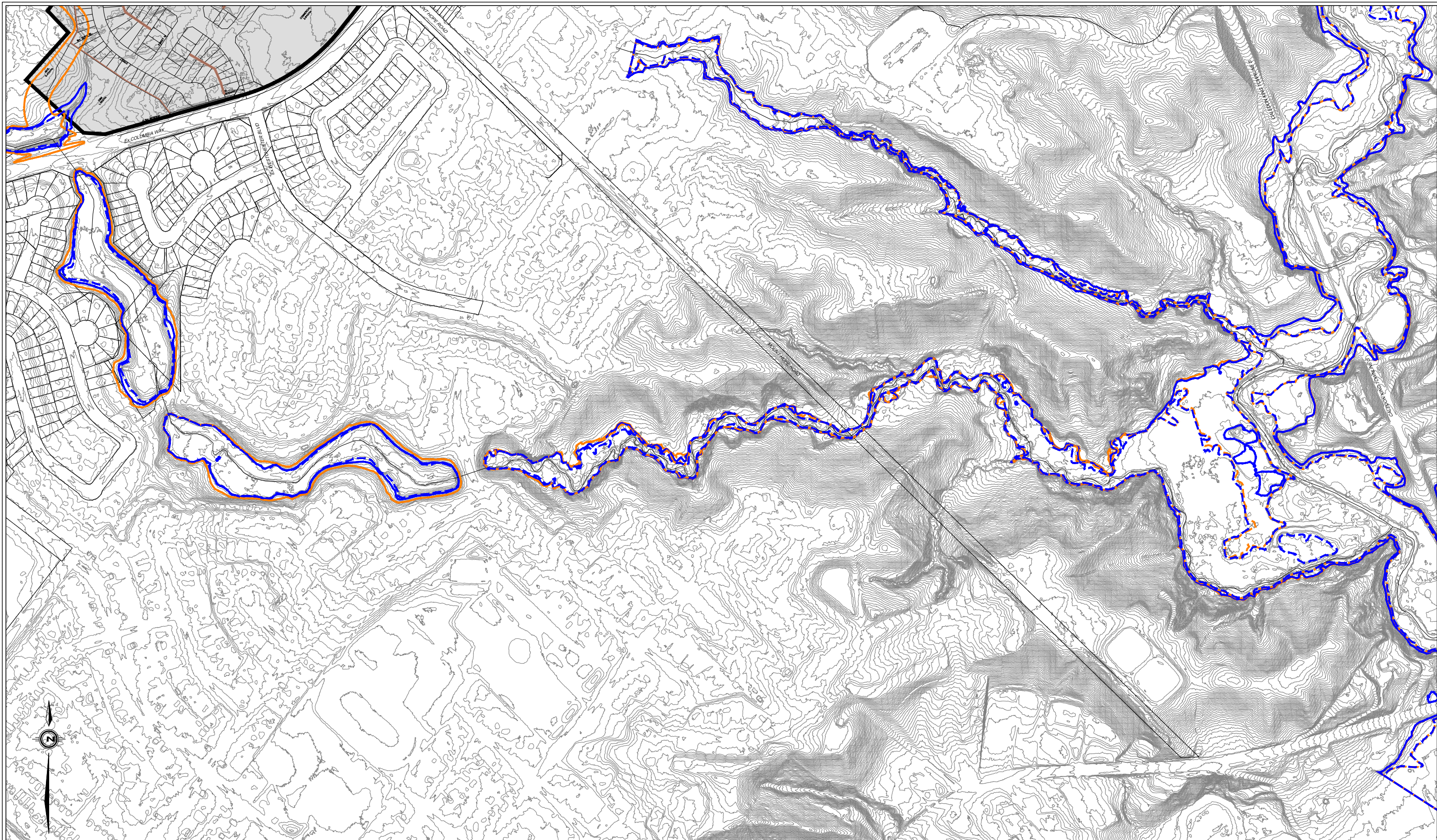
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Appendix G

Floodplain Comparison Figure








LEGEND	
	EXISTING REGIONAL FLOODLINE
	EXISTING REGIONAL FLOODLINE
	PROPOSED REGIONAL FLOODLINE
	EXISTING 100 YEAR FLOODLINE
	PROPOSED 100 YEAR FLOODLINE




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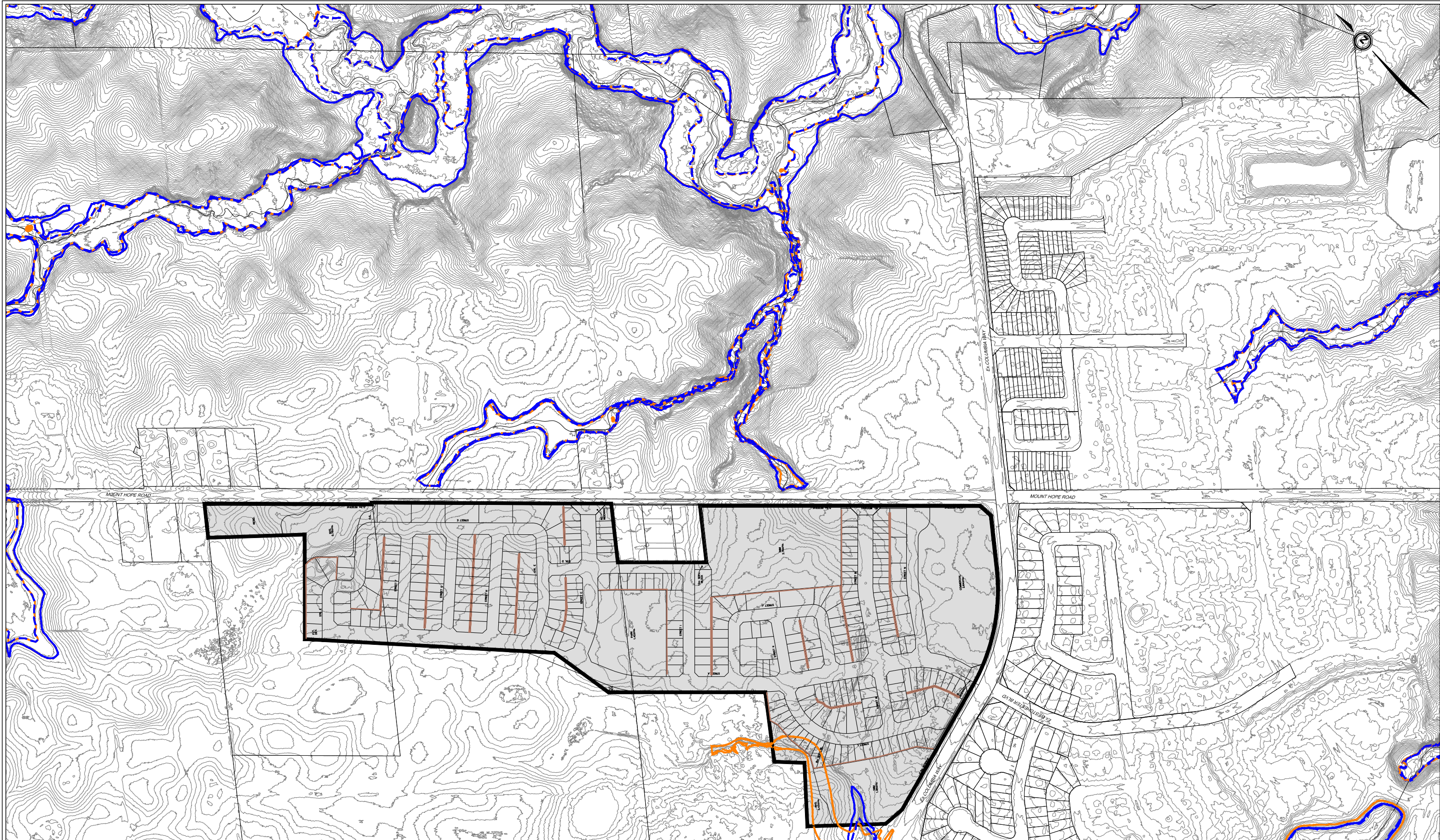
LEGEND






	EXISTING REGIONAL FLOODLINE		EXISTING REGIONAL FLOODLINE
	PROPOSED REGIONAL FLOODLINE		EXISTING 100 YEAR FLOODLINE
	PROPOSED 100 YEAR FLOODLINE		

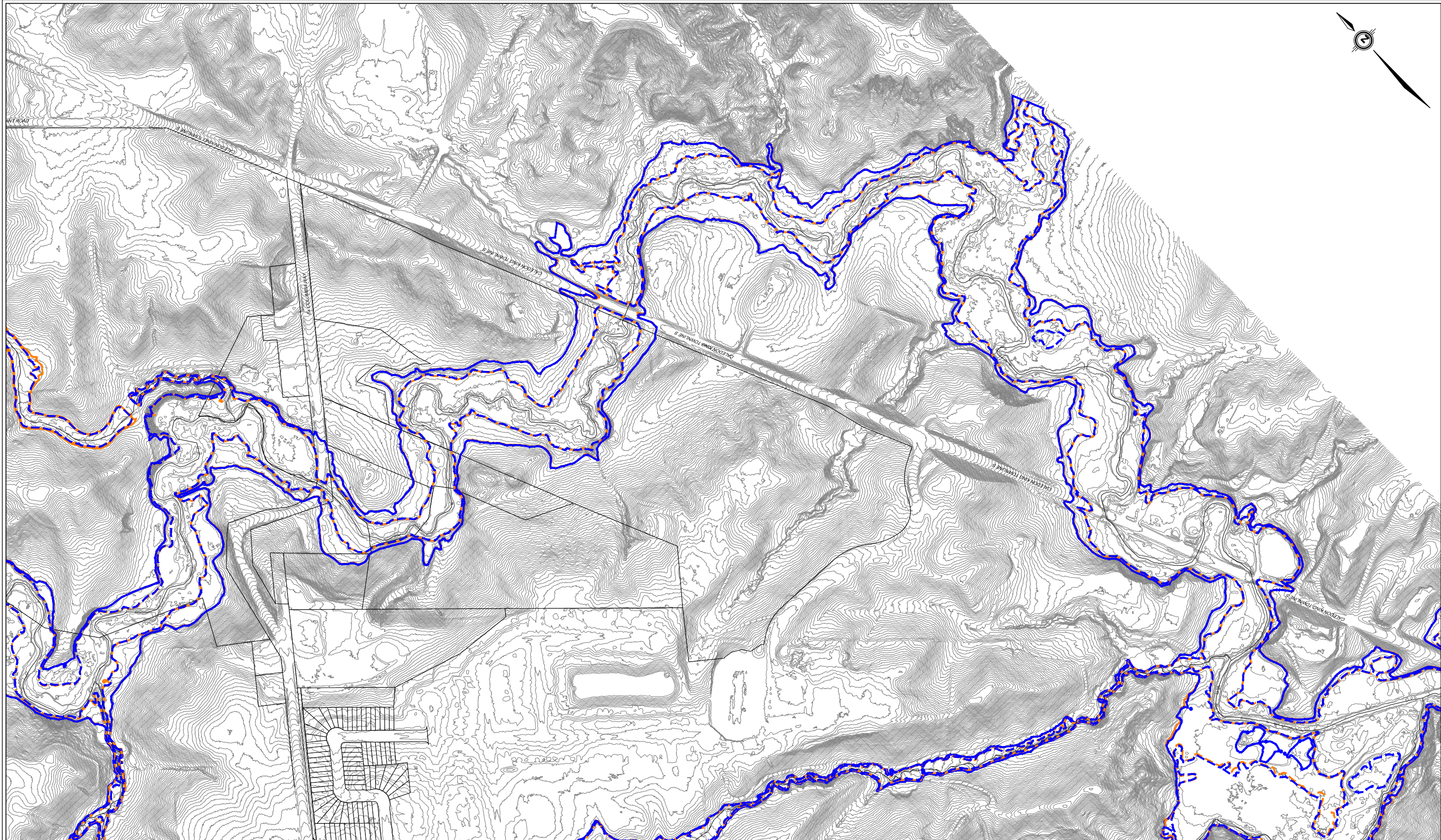
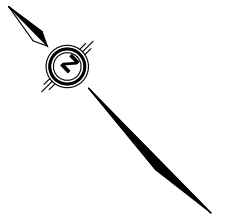
RESIDENTIAL SUBDIVISION
 UNITED HOLDINGS INC.
 C/O SOLMAR DEVELOPMENT CORP.

FIGURE 2
 EXISTING & PROPOSED
 FLOODLINE COMPARISON
 MAIN HUMBER TRIBUTARY A (02)

2024-5476	FEBRUARY 2026	SCALE: N.T.S.
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LEGEND	
	EXISTING REGIONAL FLOODLINE
	EXISTING REGIONAL FLOODLINE
	PROPOSED REGIONAL FLOODLINE
	EXISTING 100 YEAR FLOODLINE
	PROPOSED 100 YEAR FLOODLINE



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LEGEND

 EXISTING REGIONAL FLOODLINE	 EXISTING REGIONAL FLOODLINE
 EXISTING 100 YEAR FLOODLINE	 PROPOSED REGIONAL FLOODLINE
 EXISTING 100 YEAR FLOODLINE	 PROPOSED 100 YEAR FLOODLINE

RESIDENTIAL SUBDIVISION
UNITED HOLDINGS INC.
C/O SOLMAR DEVELOPMENT CORP.

FIGURE 4
EXISTING & PROPOSED
FLOODLINE COMPARISON
COLD CREEK WEST

2024-5476	FEBRUARY 2026	SCALE: N.T.S.
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Appendix H

Hydraulic Crossings Inventory

CROSSING # 324 - HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yy): 03/31/2018	Structure Type (Culvert/Bridge): Bridge		Flow Present (Y/N): Y
Field Crew: HD+TS	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth (mm): 500-700
Watershed Name: Humber	Material (Concrete/Steel): Concrete		Approx. Velocity (m/s):
Subcatchment Area No: TBD	Height (m) x Width (m) or Diameter (m): 2.5 X 9.55		Upstream Erosion (Y/N): N
Tributary Name: Cold Creek - Reach 1	Length (m): 12		Downstream Erosion (Y/N): N
Floodplain Map Sheet No.: TBD	U/S Invert Elev. (m):	U/S Obvert Elev. (m):	Additional Flow Information:
Cross Section Range: TBD	D/S Invert Elev. (m):	D/S Obvert Elev. (m):	
Municipality: King	Inlet Type (Projecting/Mitered/Headwall):		
Location (Road Name/Intersection): Caledon King Townline @ King Road	Skew Angle of Crossing (Degrees): 0		
	Height from Obvert to Top of Road (m):		
	Depth of Siltation (mm):		

Site Photograph and Additional Field Notes

Site Sketch:



Upstream Bridge Face



Upstream Channel



Downstream Bridge Face



Downstream Channel

Description of Photograph:

CROSSING # 311 - HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yy): 30/11/2018	Structure Type (Culvert/Bridge): Bridge		Flow Present (Y/N): Y
Field Crew: HD+HB	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth (mm): 400-700
Watershed Name: Humber	Material (Concrete/Steel): Concrete		Approx. Velocity (m/s):
Subcatchment Area No: TBD	Height (m) x Width (m) or Diameter (m): 1.7X8		Upstream Erosion (Y/N): N
Tributary Name: Cold Creek - Reach 1	Length (m): 16		Downstream Erosion (Y/N): N
Floodplain Map Sheet No.: TBD	U/S Invert Elev. (m):	U/S Obvert Elev. (m):	Additional Flow Information:
Cross Section Range: TBD	D/S Invert Elev. (m):	D/S Obvert Elev. (m):	
Municipality: King	Inlet Type (Projecting/Mitered/Headwall):		
Location (Road Name/Intersection): Caledon King Town Line South	Skew Angle of Crossing (Degrees): approx. 30		
	Height from Obvert to Top of Road (m): < 0.5		
	Depth of Siltation (mm):		

Site Photograph and Additional Field Notes

Site Sketch:



Upstream Bridge Face



Upstream Channel



Downstream Bridge Face



Downstream Channel

Description of Photograph:

CROSSING # 326 - HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions	Current Flow Information
Date (mm/dd/yy): 11/30/2018	Structure Type (Culvert/Bridge): Bridge	Flow Present (Y/N): Y
Field Crew: HD+HB	Number of Cells: 1 Open Footing (Yes/No):Y	Approx. Depth (mm): 500-700
Watershed Name: Humber	Material (Concrete/Steel): Concrete	Approx. Velocity (m/s):
Subcatchment Area No: TBD	Height (m) x Width (m) or Diameter (m): 2.3 X 10	Upstream Erosion (Y/N): N
Tributary Name: Cold Creek - Reach 1	Length (m):18	Downstream Erosion (Y/N):N
Floodplain Map Sheet No.: TBD	U/S Invert Elev. (m): 211.91 U/S Obvert Elev. (m): 214.21	Additional Flow Information:
Cross Section Range: TBD	D/S Invert Elev. (m): 211.24 D/S Obvert Elev. (m): 213.54	
Municipality: King	Inlet Type (Projecting/Mitered/Headwall):Projecting	
Location (Road Name/Intersection): Caledon King Townline @ King Road	Skew Angle of Crossing (Degrees): 0	
	Height from Obvert to Top of Road (m): .75	
	Depth of Siltation (mm):	

Site Photograph and Additional Field Notes

Site Sketch:



Upstream Culvert Face



Upstream Channel



Downstream Culvert Face



Downstream Channel

Description of Photograph:

CROSSING X-86 - HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yy): May 2017	Structure Type (Culvert/Bridge): bridge		Flow Present (Y/N): Yes
Field Crew: Owen Sanders & Sam Martinez	Number of Cells: 1	Open Footing (Yes/No): yes	Approx. Depth (mm): 250
Watershed Name: Upper Humber	Material (Concrete/Steel): concrete		Approx. Velocity (m/s): 1
Subcatchment Area No: 6	Height (m) x Width (m) or Diameter (m): 0.87 x 4.30		Upstream Erosion (Y/N): No
Tributary Name: Centreville Crk, Reach3	Length (m): 17.88		Downstream Erosion (Y/N): No
Floodplain Map Sheet No.:	U/S Invert Elev. (m): 287.17	U/S Obvert Elev. (m): 288.04	Additional Flow Information: Catchment 6 - Updated_MMM2014 - XS 7.662
Cross Section Range: 1000.026 - 1000	D/S Invert Elev. (m): 287.13	D/S Obvert Elev. (m): 288.00	
Municipality: Caledon	Inlet Type (Projecting/Mitered/Headwall):		
Location (Road Name/Intersection): Airport Rd.	Skew Angle of Crossing (Degrees): 0		
	Height from Obvert to Top of Road (m): 0.54		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:



Description of Photograph: Upstream