HYDRAULIC ANALYSIS REPORT

12245 TORBRAM ROAD TULLAMORE LANDS

TOWN OF CALEDON REGION OF PEEL

PREPARED FOR:

TULLAMORE INDUSTRIAL GP LIMITED

PREPARED BY:

C.F. CROZIER & ASSOCIATES INC.
2800 HIGH POINT DRIVE, SUITE 100
MILTON, ON L9T 6P4

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CROZIER
CONSULTING ENGINEERS

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1.0 Introduction

1.1 Project Description

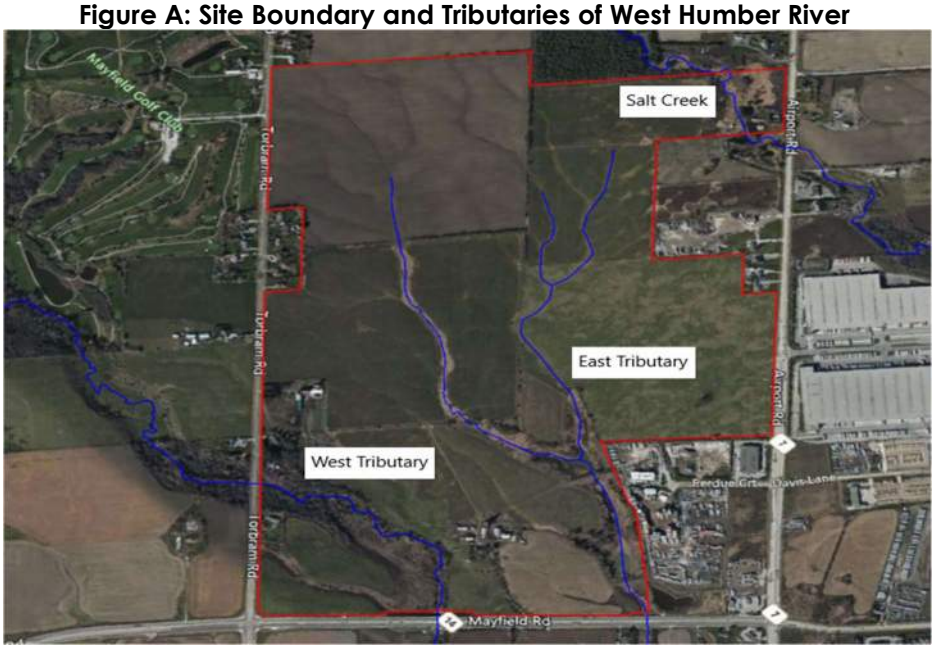
C.F. Crozier & Associates Inc. (Crozier) was retained by Rice Group to complete a Hydraulic Analysis Report supporting an Official Plan Amendment (OPA) application for the property known as Tullamore Lands in the Town of Caledon. The purpose of this report is to document the methodology of the floodplain analysis for the east tributary of Campbell's Creek and Salt Creek.

1.2 Background

The Site is primarily a greenfield area covering approximately 202.9 ha and is currently zoned as industrial per the MZO. The Site is bounded by Mayfield Road (Regional Road 14) to the south, Airport Road (Regional Road 7) to the east, greenfield lands to the north, and Torbram Road to the west.

The Site consists of primarily agricultural land and contains a Greenbelt area as well as two tributaries of the West Humber River. The Greenbelt area of the Site is located northeast of the Torbram Road and Mayfield Road intersection and a tributary of the West Humber River (Salt Creek) is conveyed through this Greenbelt area. A second tributary of the West Humber River passes through the middle of the Site in two locations. Both tributaries convey drainage southwards through existing culverts under Mayfield Road and are tributaries of Campbell's Creek, making the site part of the TRCA Regulated Area of the West Humber River Watershed. The larger tributary is in the southwest corner of the property and, for the purposes of this Report, will be referred to as the west tributary. The second water course is a smaller tributary, which flows through the middle of Site and will be referred to as the east tributary.

Figure A: Site Boundary and Tributaries of West Humber River



As shown on the Draft Landscape Setting Figure 1 (GEI Consultants) attached, the area surrounding the west tributary is identified as greenbelt. No development is proposed within this area.

The preservation of this area will ensure that the flow conveyance in this area will be maintained. For this report, only the hydraulic function of the channel corridor and proposed crossings is being analyzed.

Similarly, the area surrounding Salt Creek in the northeast corner of the site is identified as greenbelt. Drainage to this watercourse will be maintained in post-development, so no hydraulic analysis is required.

2.0 Background Information

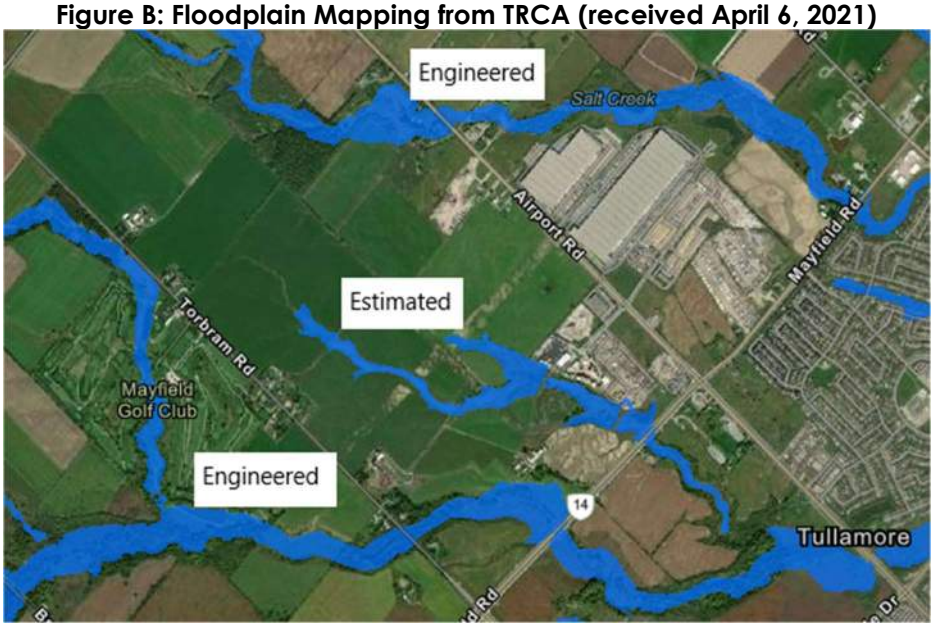
2.1 Topographic Survey

A Topographic Survey of the site was completed by Young & Young Surveying Inc. in October 2021 and has been included in Appendix A of this report. Additional contour information was obtained through the Ontario Classified Point Cloud Data (accessed via Equator Software on April 8, 2021).

2.2 Hydraulic Model

Based on correspondence with the TRCA, it has been confirmed that the west tributary has an engineered floodplain model which is accepted by TRCA, so further analysis of the west tributary is not required. TRCA has an estimated floodplain model prepared for the east tributary and not an engineered floodplain model. Figure B shows the floodplain for the engineered west tributary and the estimated east tributary.

Figure B: Floodplain Mapping from TRCA (received April 6, 2021)



TRCA indicated that the information provided in the estimated model is the best available but is not appropriate for land development approvals. TRCA specified that the estimated model does not include crossing structures, refined Manning's n values or detailed crossing geometry. As a result, TRCA staff advised that the available modeling and mapping be used to conduct the hydraulic analysis for the project, with the appropriate refinements, to create an engineered HEC-RAS model. Therefore, additional analysis of the east tributary must be undertaken and refinements to the estimated model shall be made to create an engineered HEC-RAS model. TRCA provided both the estimated and engineered HEC-RAS models of the three tributaries.

3.0 Methodology

3.1 Modified Existing Conditions Hydraulic Model

The following steps were undertaken to create the engineered HEC-RAS model used to represent the modified existing conditions for this analysis:

- Review of the Final West Humber River engineered hydraulic (HEC-RAS) model, prepared by Cole Engineering in May 2019, provided by the TRCA. This model includes Salt Creek, the west tributary and the downstream sections of the West Humber River.

- Review of the West Humber River estimated hydraulic (HEC-RAS) model, provided by TRCA in May 2021. This model includes the east tributary on the site.

- Tributary drainage areas for the east tributary and Salt Creek were reviewed using both a topographic survey and LiDAR generated topography to validate external upstream drainage areas that are conveyed to the east tributary on site.

- Review of the Humber River Hydrology Update, prepared by Civica Infrastructure (April 2018) and update based on delineation of pre-development and post-development drainage through the Site.

- Updated the hydrological inputs for the HEC-RAS model per the updates to the Humber River Hydrology model.

- The eastern tributary was added to the engineered hydraulic model. This includes the east and west branch of the East Tributary (the estimated model only included the western branch of the eastern tributary), the model geometry was based on the topographic survey and LiDAR generated topography.

- Established existing Regional flood elevations on the site for Salt Creek and the east tributary based on the combined HEC-RAS model with updated hydrology and updated sections based on the recent topographic survey completed for the area.

- Calculate the flood storage provided in the floodplain for the east tributary.

- Analyze the impacts of the proposed development on the conveyance capacity of the culvert under Mayfield Road.

4.0 Hydrology

4.1 Existing Conditions - TRCA Flows

The estimated hydraulic (HEC-RAS) model provided by TRCA included Regional Storm flows for the east tributary (Campbell's Trib A). Table 1 summarizes the TRCA flows within the HEC-RAS model.

Table 1: Pre-Development TRCA Flows

Outlet Location	Regional Flow Rate (m^3/s)	HEC-RAS River	HEC-RAS Reach	HEC-RAS Station ID
East Tributary	14.57	Campbell's TribA	Reach 4	1254.43
Old School Rd West Culvert	68.502		Reach 3	812.543
Bramalea Rd Culvert	94.581			810.603
-	95.498			809.18
-	156.302			808.362
Torbram Rd Culvert	161.446			808.212
-	159.371			806.107
-	167.291			805.528
-	167.549			805.367
Airport Rd S Culvert	177.857			804.373
Countryside Dr Culvert	177.551			803.689
Reach 2	177.068			803.971
Old School Rd Culvert	100.612	Salt Creek	Reach 1	1012.797
Airport Rd N Culvert	100.162			1011.786

4.2 Modified Existing Conditions

According to the topographic survey (Young & Young Surveying Inc., May 2021), the site generally slopes towards the west and east tributaries, with majority of the stormwater runoff directed towards the east tributary. The east portion of the site gently slopes towards Airport Road, and ultimately towards Salt Creek, while the northeast portion of the Site drains directly to Salt Creek. There is also an area directed towards the neighboring property near the southeast corner of the Site.

In addition to drainage within the property, there is a combined 13.9 ha external area that also drains through the Site. These areas generally flow southwards and are conveyed through the East Tributary on site, apart from a 1.4 ha area which drains through the site towards Airport Road and a 1.9 ha area that drains towards the West Tributary. Pre-development drainage areas have been delineated based on the existing Site topography and are shown in Figure 2.

Under existing conditions, the site is occupied by a cattle farm which has two man-made berms obstructing the east tributary. The two berms have culverts which control the flow of the east tributary to create ponds upstream of the berms. The berms/culverts result in backwater to create the ponds, which impacts the flood elevations on site.

The site also has an existing culvert on the southeast corner of the site that conveys flows from the east tributary. Under pre-development conditions there are five (5) main stormwater outlets for the Site; the West Tributary, the East Tributary, Airport Road (which ultimately drains to Salt Creek), the neighboring property to the southeast and Salt Creek. Most of the flows from the site and all external areas outlet to the east tributary on the property.

To gain a better understanding of the flow contributions to the different branches of the east tributary, primary outlet locations for each catchment were identified and Figure 2 displays the pre-development drainage areas. Majority of the drainage from the Site is directed towards the east tributary. Table 2 summarizes the pre-development drainage catchments.

Table 2: Pre-Development Catchments

Catchment ID	Area (ha)	Runoff Coefficient	Curve Number (CN)[1]	Outlet
101	34.6	0.26	79	West Tributary
102	46.7	0.25	82	East Tributary
103	17.0	0.25	84	
104	32.0	0.25	84	
105	11.1	0.25	80	
106	31.0	0.28	79	
107	1.7	0.25	84	Airport Road / Salt Creek
108	11.3	0.25	84	
109	7.7	0.25	82	Southeast Neighbors
110	9.7	0.25	84	Salt Creek
111	0.1	0.25	84	
Total Site	**202.9**	**-**	**-**	**-**
EXT1	0.6	0.36	79	West Tributary
EXT2	1.3	0.35	79	
EXT3	3.4	0.49	79	East Tributary
EXT4	4.9	0.25	79	
EXT5	0.9	0.25	84	
EXT6	0.5	0.25	84	
EXT7	1.4	0.60	84	Airport Road / Salt Creek
EXT8	0.9	0.58	79	East Tributary
Total External	**13.9**	**-**	**-**	**-**

1. CN values determined for each catchment based on existing land use and soils on Site. CN values were converted to CN* within VO for the 2-year to 100-year events and converted to CNIII for the Regional model to better represent the available soil moisture storage volume during a storm event.

Based on the review of the Humber River Hydrology Update (Civica, April 2018), the site is located within Humber River Catchment IDs 31.01, 32.27, 32.28, 32.29, 32.22, 35.12 and 35.13. A review of these drainage areas overlain on the site topography indicated that portions of the runoff from the Site do not drain to the catchments identified within the Humber River Hydrology Update. The approved Humber River model (Civica 2018) was trimmed and modified to reflect detailed site drainage conditions. A copy of the updated model is included as an attachment to this report. Modifications to the model mainly included changes to catchment areas, under both pre-development and post-development conditions. Refer to Figures 2, 3A and 3B for more details on the changes made to the Humber River Hydrology Update catchment areas.

Visual OTTHYMO (VO) was used to determine the pre-development peak runoff directed towards the west tributary, east tributary and Salt Creek. The catchment results have been combined based on the primary outlet locations indicated in Table 2 and include flows from the neighbouring property. The HEC-RAS station IDs where flows were added to represent the primary outlets are included in Table 3 along with the VO flow results for the Regional and 6-hour SCS design storms. The VO model inputs and results are included as part of Appendix B.

Table 3: Pre-Development Peak Runoff Flows

River	Reach	River Station ID	Flow Rate (m^3/s)						
			2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	Regional
Campbell's TribA	Reach 8	25105	0.27	0.49	0.64	0.84	1.00	1.16	2.05
	Reach 6	1154.71[1]	0.45	0.78	1.01	1.33	1.57	1.82	3.50
	Reach 6-Lower	629	0.62	1.09	1.46	1.96	2.37	2.82	5.55
	Reach 5	2480.223	0.62	1.08	1.43	1.90	2.26	2.63	5.86
	Reach 4	1254.43	1.30	2.31	3.08	4.14	5.00	5.90	12.61
		914	1.57	2.79	3.71	4.98	6.02	7.12	15.90
		790	1.76	3.10	4.08	5.45	6.58	7.72	20.85[2]
		638.888	1.53	2.69	4.95	6.61	7.95	9.32	23.85
	Reach 3	812.543	0.58	1.15	11.56	15.51	18.54	21.65	68.50
		810.603	0.78	1.56	15.80	21.24	25.43	29.78	94.64
		808.382	1.25	2.49	24.93	33.72	40.51	47.57	156.12
		808.212	1.28	2.55	25.32	34.27	41.22	48.43	159.92
		806.107	1.28	2.55	25.31	34.28	41.23	48.46	165.30
		805.528	1.38	2.74	26.77	36.27	43.67	51.36	166.13
		805.367	1.38	2.74	26.64	36.09	43.47	51.14	166.46
	Reach 3-Lower	808.474	2.19	3.93	28.13	38.14	45.96	54.16	175.32
		804.373	2.22	4.00	28.14	38.17	46.00	54.20	175.79
		803.689	2.12	3.75	28.27	38.50	46.16	54.36	175.96
		801.971	2.53	3.82	28.44	38.66	49.36	54.61	176.01
		460.038	3.90	5.62	28.59	38.89	46.62	54.96	178.86
Salt Creek	Reach 1	1012.797[1]	0.62	1.20	11.27	15.28	18.56	21.63	74.63
		1012.447	0.63	1.23	11.53	15.64	19.00	22.14	76.38
		1011.37	0.77	1.49	14.22	19.23	23.31	27.14	93.13
		1009.950[1]	2.66	4.04	15.06	20.30	24.55	28.75	99.69
		1008.094	2.76	4.18	15.58	21.01	25.41	29.75	103.18

[1] Flow calculated through Transposition of Flows

[2] Flow requested by TRCA in the January 29, 2024 comments, Hydraulics section, comment #2

4.3 Modified Existing Conditions (Update to TRCA Existing Conditions Model)

To accurately model the flood elevations through the subject property, the East Branch of the east tributary was added to the HEC-RAS model (River Campbell's TribA), as previously discussed. The East Branch is comprised of a forked tributary, with the new reaches being represented as Reach 6, Reach 8 & Reach 6-Lower. These new reaches are located upstream of the forked north pond on Site. A total of twenty-four (24) cross-sections were added along the new reaches.

As a result of the new reach, the existing reach was split in two; Reach 5 represents the west branch upstream of the forked pond and Reach 4 represents the remainder of the tributary where both branches merge. The upstream station of Reach 5 within the Site is cross-section 2247.605 and existing cross-section 1345.871 represents the downstream-most section. Section 1316.219 was removed and replaced with an additional section (station 1281.581), which represents the downstream section of the reach. A total of twenty-one (21) cross-sections are included along Reach 5 within the Site. Figures 5A and 5B (following the report) show the location of the cross-sections.

The upstream cross-section of Reach 4 is station 1254.43 and the analysis is carried out to the station downstream of the Mayfield Road crossing at cross-section 638.543. A total of eighteen (18) cross-sections are included along Reach 4 within the Site.

The following changes were made to the provided model:

- Added one cross section upstream of the north berm (stations 1190).
    - Cross-section 1190 was altered slightly to lower the bottom of the channel to the elevation of the culvert invert. The bottom of the channel was at an elevation of 233.97 masl and the upstream invert of the culvert was identified as 233.10 masl.
- Added 1 m diameter culvert at the north berm based on the topographic survey completed by Young & Young (May 2021).
- Removed cross-sections 1191.774 and 1158.102 from the model as they are located directly on the north berm.
- Added two cross sections downstream of the north berm (stations 1132 and 1125).
- Added four (4) additional sections between the two berms on Site.
- Added two cross sections upstream of the south berm (stations 861 and 846).
    - Cross-section 846 was altered slightly to lower the bottom of the channel to the elevation of the culvert invert. The bottom of the channel was at an elevation of 229.274 masl and the upstream invert of the culvert was identified as 228.26 masl.
- Added 600 mm diameter culvert at the south berm based on the topographic survey completed by Young & Young (May 2021).
- Removed cross-sections 821.4014 and 822.8878 from the model as they are located directly on the south berm.
- Added two cross sections downstream of the south berm (stations 790 and 763).

    - Cross-section 790 was altered slightly to lower the bottom of the channel to the elevation of the culvert invert. The bottom of the channel was at an elevation of 228.964 masl and the upstream invert of the culvert was identified as 228.57 masl.

- Added one (1) additional section between the south berm and Mayfield Road.
- Added two cross sections upstream of the Mayfield Road crossing (stations 727 and 692.338).
- Added 6706 mm by 1829 mm culvert at the Mayfield Road crossing based on the Issued for Tender drawings by IBI Group (March 2017).
- Removed cross-sections 689.3702, 669.7656 and 665.2351 from the model as they are located directly on Mayfield Road.
- Added one cross section downstream of the Mayfield Road crossing (station 638.888).

As requested by TRCA the existing sections within the East Tributary and Salt Creek were updated with a new surface comprising of LiDAR and the topo survey completed for the site by Young & Young (October 2021). A comparison of the TRCA cross-section profiles and the updated sections are attached (Appendix C).

In addition, Manning's n coefficients have been assigned based on existing Site conditions. A Manning's n coefficient of 0.035 was applied for the main channel, while the floodplain was assigned a Manning's n coefficient of 0.045 representing agricultural lands. Note that a Manning's n coefficient of 0.035 was used for the channel and banks of the west and east branches (Reaches 5, 6, 8 and 6-Lower) since these areas do not consist of defined channels.

Details for the culvert at the north and south berms are shown in Table 4. The north berm overtops during the 25-year storm event and all larger storm events (25-Year to regional) while the south berm overtops during all storm events (2-Year to Regional). The east tributary experiences significant backwater effect due to the two berms/culverts, which is discussed in Section 6.3.

Table 4: Existing Conditions - Berm Culvert Dimensions

	Berm 1	**Berm 2**
Type	Circular	Circular
Diameter (m)	1.0	0.6
U/S Invert (masl)	233.1	229.26
D/S Invert (masl)	232.7	228.57
Length (m)	35	35
Slope (%)	1.14%	1.97%

Culvert details for the east tributary crossing at Mayfield Road is outlined in Table 5. The Mayfield Road culvert conveys the Regional and all other storm events and flooding does not overtop Mayfield Road.

Table 5: Existing Mayfield Road Culvert Dimensions

	Existing Culvert
Type	Open Bottom Box Culvert
Size	1,829 mm x 6,706 mm
U/S Invert (masl)	227.80
D/S Invert (masl)	227.35
Length (m)	52.0
Slope (%)	0.87%
Road Low Elevation Point (masl)	230.59

4.4 Modified Existing Conditions Backwater Analysis

To better understand the backwater effects from the two berms on site, an additional HEC-RAS scenario was created to determine the flood elevations without the berms. The man-made berms were constructed downstream of the north and south ponds by the previous owners. Culverts pass through both berms, which controls the flow out of the ponds, and consequently impacts the flood elevation on site. In this scenario, the two berms and associated culverts were removed from the modified existing conditions HEC-RAS model.

The modified existing conditions Regional flood elevations for the east tributary with berms and without berms scenarios are shown in Figure 4A and Figure 4B, respectively. Existing flood elevations for the east tributary are provided in Tables 6, 7 and 8, which were obtained using the VO generated flows. Detailed output from the HEC-RAS model is in Appendix C.

Table 6: Existing Regional Flood Elevations for Reach 8, Reach 6 and Reach 6-Lower

River Reach	River Station ID	Modified Existing Conditions with Berms (m)	Modified Existing Conditions with Berms Removed (m)
Reach 8	25105[1]	245.96	245.96
	25101[1]	245.48	245.48
	25005[1]	244.87	244.87
	24932.1[1]	244.25	244.25
	24932[1]	243.74	243.74
	24406[1]	243.31	243.31
	24152[1]	242.57	242.57
	24151[1]	241.43	241.43
Reach 6	1154.71[1]	247.15	247.15
	1064.02[1]	245.88	245.88
	962.05[1]	244.62	244.62
	881.96[1]	243.80	243.80
	808.88[1]	243.08	243.08
	744.83[1]	242.20	242.20
	688[1]	241.47	241.51
Reach 6-Lower	629[1]	240.97	240.93
	581.37[1]	240.56	240.62
	522.55[1]	240.13	240.05
	379.80[1]	238.79	238.87
	289.21[1]	238.76	238.24
	217.29[1]	238.76	237.28
	175.22[1]	238.76	236.07
	75.62[1]	238.76	235.00
	17.67[1]	238.76	234.93

[1] Station located within the Site.

Table 7: Existing Regional Flood Elevations for Reach 5

River Station ID	Modified Existing Conditions with Berms (m)	Modified Existing Conditions with Berms Removed (m)
2307.004	245.39	245.39
2247.605[1]	244.71	244.71
2193.192[1]	243.92	243.92
2136.188[1]	243.29	243.29
2075.723[1]	242.83	242.83
2020.589[1]	242.18	242.18
1969.241[1]	241.62	241.62
1907.204[1]	240.82	240.82
1865.536[1]	240.39	240.39
1835.732[1]	240.09	240.10
1759.197[1]	239.40	239.35
1684.856[1]	238.89	238.97
1614.867[1]	238.76	238.54
1534.323[1]	238.76	237.67
1499.019[1]	238.76	236.98
1374.339[1]	238.76	236.21
1345.871[1]	238.76	234.93
1281.581[2]	238.76	234.90

[1] Station located within the Site.
[2] Station added, Station located within the Site.

Table 8: Existing Regional Flood Elevations for Reach 4

River Station ID	Location	Modified Existing Conditions with Berms (m)	Modified Existing Conditions with Berms Removed (m)
1254.43	Within the Site	238.76	234.85
1190	U/S of north berm	238.76	234.64
North Berm			
1132	D/S of north berm	234.85	232.73
1125	Within the Site	234.88	232.71
1105.427	Within the Site	234.88	232.61
1064.597	Within the Site	234.88	232.17
1047.971	Within the Site	234.88	231.70
1000.841	Within the Site	234.88	231.16
961.311	Within the Site	234.88	230.42
914	Within the Site	234.88	230.04
899	Within the Site	234.88	230.02
879	Within the Site	234.88	230.00
861	Within the Site	234.88	229.98
846	U/S of south berm	234.88	229.92
South Berm			
790	D/S of south berm	230.18	229.87
763	Within the Site	229.85	229.85
727	Within the Site	229.83	229.83
692.338	U/S of Mayfield Rd	229.32	229.32
638.888	D/S of Mayfield Rd	228.69	228.69
638.543	D/S of the Site	228.37	228.37

The flood elevation results shown in Tables 6, 7 and 8 show the flood elevations for modified existing conditions with the two berms and culverts removed. The berms/culverts result in backwater effect directly upstream of the two berms. The north berm/culvert causes an upstream backwater approximately 300 m upstream of the north berm. The south berm/culvert causes upstream backwater effect all the way up to the north berm.

As shown in Figure 4B, the flood elevation decreases by as much as 3 m in the area around the north and south ponds when the berms are removed. Removal of the man-made berms decreases the portion of the Site that is within the Regional flooding.

4.5 Creek Crossings and Hydraulic Structures

There are no changes to the existing culvert at Mayfield Road. A summary of the details for the existing east tributary crossing at Mayfield Road is outlined above in Table 9.

Table 9: Existing Mayfield Road Culvert Dimensions

	Existing Culvert
Type	Open Bottom Box Culvert
Size	1,829 mm x 6,706 mm
U/S Invert (masl)	227.80
D/S Invert (masl)	227.35
Length (m)	52.0
Slope (%)	0.87%
Road Low Point Elevation (masl)	230.59
Hydraulic Summary	Culvert conveys the Regional and all other storm events and flooding does not overtop the road.

5.0 Hydraulic Analysis

5.1 Proposed Conditions

In proposed conditions, the reaches of Campbell's TribA upstream of the south berm will be removed and the flood storage will be provided on site in the form of a Regional stormwater management facility. The active storage within the dry pond will be sized to control the post-development Regional flow to the pre-development Regional peak flow in order to provide conveyance through the Mayfield Road culvert; see the Functional Servicing & Stormwater Management Report completed by Crozier under a separate cover for more details.

Preliminary sizing for the outlet for the dry pond was completed as part of this submission. The outlet structure is proposed in the southeast corner of the dry pond and will consist of one (1) 5,486 mm (W) by 1,525 mm (H) concrete box culvert with open bottom, which will be installed at an invert of 228.75 m (bottom of channel within the dry pond). Flows will then be directed towards the existing Mayfield Road culvert. The outlet control for the dry pond will be detailed further at the detailed design stage.

Visual OTTHYMO (VO) was used to determine the post-development peak runoff directed towards the west tributary, east tributary and Salt Creek. Table 10 provides the post-development controlled flows that were updated in the hydraulic model. The flows presented in Table 10 represent the 12-hour SCS design storm flows for the 2-year to 100-year storm events since it had a greater controlled flows. The VO model inputs and results for both the 6-hour and 12-hour SCS design storms are included as part of Appendix B.

Table 10: Controlled Post-Development Peak Runoff Flows

River	Reach	River Station ID	Flow Rate (m^3/s)						
			2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	Regional
Campbell's TribA	Reach 4	790	0.97	1.62	2.08	2.91	3.66	4.26	17.61
		638.888	0.98	1.70	2.95	3.96	4.76	5.61	22.78
	Reach 3	812.543	0.83	1.50	12.62	16.41	19.28	22.25	68.50
		810.603	1.13	2.05	17.36	22.59	26.58	30.75	94.64
		808.382	1.80	3.27	27.58	36.05	42.56	49.38	156.12
		808.212	1.85	3.36	28.16	36.85	43.52	50.53	159.79
		806.107	1.85	3.36	28.19	36.90	43.59	50.60	165.16
		805.528	1.99	3.61	29.88	39.17	46.27	53.76	165.99
		805.367	1.98	3.61	29.79	39.05	46.17	53.63	166.30
	Reach 3-Lower	808.474	2.42	4.21	32.16	42.17	49.89	58.03	175.23
		804.373	2.42	4.21	32.20	42.23	49.97	58.12	175.69
		803.689	2.49	4.31	32.50	42.56	50.36	58.57	175.86
		801.971	2.56	4.40	32.81	42.92	50.75	59.11	175.73
		460.038	3.60	5.09	33.16	43.38	51.30	59.79	178.18
Salt Creek	Reach 1	1012.797[1]	0.62	1.20	11.27	15.28	18.56	21.63	74.63
		1012.447	0.63	1.23	11.53	15.64	19.00	22.14	76.38
		1011.370	0.77	1.49	14.22	19.23	23.31	27.14	93.13
		1009.950[1]	2.66	4.04	15.06	20.30	24.55	28.75	99.69
		1008.094	2.57	3.85	15.59	21.01	25.40	29.74	103.15

[1] Flow calculated through Transposition of Flows

The modified existing and proposed conditions Regional floodlines for Salt Creek are shown in Figure 5. Existing and proposed flood elevations for the east tributary were obtained using the VO generated flows and are provided in Table 11. Detailed output from the HEC-RAS model is in Appendix C.

Table 11: Salt Creek Existing & Proposed Regional Flood Elevations

River Station ID	Modified Existing Conditions (m)	Proposed Conditions (m)	Difference
1010.985	243.80	243.80	0
1010.760	242.11	242.11	0
1010.657[1]	241.11	241.11	0
1010.471[1]	240.95	240.95	0
1010.375[1]	240.93	240.93	0
1010.272[1]	240.92	240.92	0
1010.177[1]	240.86	240.86	0
1010.003[1]	240.86	240.86	0
1009.993[1]	240.86	240.86	0
Bridge			
1009.962	239.07	239.07	0

[1] Station located within the Site.

5.1.1 Downstream Capacity Analysis

A downstream capacity analysis was completed for the east tributary, downstream of the Mayfield Road culvert to determine the impacts of the regional pond. The existing and proposed controlled flood elevations for Reach 4 of the east tributary are provided in Table 12.

Table 12: Downstream Existing and Proposed Regional Flood Elevations in Reach 4

River Station ID	Modified Existing Conditions (m)	Proposed Conditions (m)	Difference
692.338	229.32	229.23	-0.09
Mayfield Culvert			
638.888	228.69	228.66	-0.03
638.543	228.37	228.35	-0.02
618.4043	228.15	228.14	-0.01
589.1152	227.61	227.60	-0.01
540.9416	227.20	227.18	-0.02
487.0009	226.90	226.88	-0.02
459.8704	226.52	226.50	-0.02
428.8159	226.26	226.25	-0.01
394.871	225.93	225.91	-0.02
349.2437	225.19	225.17	-0.02
315.6893	224.63	224.62	-0.01
275.2624	224.54	224.51	-0.03
229.0522	224.14	224.12	-0.02
173.0601	223.68	223.66	-0.02
153.1	223.41	223.40	-0.01
137.87	222.93	222.90	-0.03
99.65	222.43	222.42	-0.01
11.71822	221.93	221.92	-0.01

As shown in Table 12, there are no increases in the flood elevations downstream of the site with the addition of the Regional pond.

5.2 Hydraulic Assessment of Crossing Structures

As per Town of Caledon standards, road crossings of major watercourses under collector roads must be designed to convey the 1:50 year event and crossings under arterial roads must be designed to convey the 1:100 year to Regional storm event. For all major events (1:100 year to Regional) transverse water crossings shall have a maximum water depth at the crown of the road of 0.15 m.

The design and hydraulic performance of road crossings is defined by criteria from the MTO Highway Drainage Design Standards (2008). The relevant criteria include design flows, minimum freeboard, allowable overtopping frequency, clearance, and flow depth at culvert inlets. Mayfield Road is designated as an Industrial Connector in the 2013 Peel Road Characterization Study. This is assumed to be a major arterial road. The applicable hydraulic criteria for are summarized as follows.

Design Flow: For freeway and urban arterial roads, the 50-yr design flow is used for sizing all required structures with spans less than or equal to 6.0 m and the 100-yr design flow is used for sizing all required structures with spans exceeding 6.0 m. For rural arterial and collector roads, the 25-yr design flow is used for sizing all required structures with spans less than or equal to 6.0 m and the 50-yr design flow is used for sizing all required structures with spans exceeding 6.0 m. For local roads, the 10-yr design flow is used for sizing all required structures with spans less than or equal to 6.0 m and the 25-yr design flow is used for sizing all required structures with spans exceeding 6.0 m.

Freeboard: The minimum freeboard is measured vertically from the high-water level for the design flow to the edge of the travelled lane. The minimum freeboard at road crossings shall be greater than or equal to 1.0 m for freeways, arterials, and collectors. The minimum freeboard at road crossings shall be greater than or equal to 0.3 m for local roads.

Clearance: The clearance is measured vertically from the high-water level for the design flow to the lowest point on the soffit. The minimum clearance for road crossings at freeways, arterials, and collector roads shall be greater than or equal to 1.0 m. The minimum clearance for road crossings at local roads shall be greater than or equal to 0.3 m. Zero clearance is required for the Regulatory flow.

Overtopping Criteria: There should be no overtopping of the road at any culvert crossing during the 100-yr storm event. If possible, overtopping in the Regional Storm Event should also be avoided.

Depth Criteria: The depth of flow at the culvert during the design storm should not be greater than 1.5 times the culvert height.

As outlined in Table 13, the culvert at Mayfield Road conveys the controlled proposed flows in the east tributary as it did in existing conditions and meets the freeboard criteria, clearance criteria, overtopping criteria, depth of flow criteria, and do not overtop the internal roads during the 100-year or Regional events. Since the 12-hour SCS design storm had a greater flow for the controlled 100-year event, this value was used to evaluate the design criteria to be more conservative.

Table 13: Summary of Crossing Details and Hydraulic Considerations for Controlled Flows

Crossing No.		**Proposed Conditions**
Road Classification (Design Flood Frequency per Town Standards)		Major Arterial (Design Flow = 100Yr)
Approx. Edge of Asphalt Grade (masl)		230.69
100-Yr Event (12-hr SCS)	Flow Rate (m^3/s)	4.27
	Headwater Elevation (masl)	228.55
	Freeboard (m)	2.14
	Depth of Flow (m)	0.75
Regional Event	Flow Rate (m^3/s)	17.61
	Headwater Elevation (masl)	229.42
	Freeboard (m)	1.27
	Depth of Flow (m)	1.62
Freeboard (m) **during Design Flow**		2.14
Overtopping (m) **during 100-Yr and/or Regional Event**		Does not overtop during 100-Yr or Regional Event
Clearance (m) **during Design Flow**		1.08
Water Level Source		XS: 670 (Upstream)

As outlined in Table 14, the culvert at Mayfield Road conveys the uncontrolled Regional flows in the east tributary, however it does not convey the uncontrolled 100-year storm event (Regulatory flow). Though the culvert does not meet the freeboard, clearance, overtopping or depth of flow criteria, safe access is still provided. Since the 6-hour SCS design storm had a greater flow for the uncontrolled 100-year event, this value was used to evaluate the design criteria to be more conservative.

Table 14: Summary of Crossing Details and Hydraulic Considerations for Uncontrolled Flows

Crossing No.		**Proposed Conditions**
Road Classification (Design Flood Frequency per Town Standards)		Major Arterial (Design Flow = 100Yr)
Approx. Edge of Asphalt Grade (masl)		230.69
100-Yr Event (6-hr SCS)	Flow Rate (m^3/s)	34.83
	Headwater Elevation (masl)	230.77
	Freeboard (m)	-0.08
	Depth of Flow (m)	2.97
Regional Event	Flow Rate (m^3/s)	26.96
	Headwater Elevation (masl)	229.63
	Freeboard (m)	1.06
	Depth of Flow (m)	1.83
Freeboard (m) **during Regulatory flow**		-0.08
Overtopping (m) **during 100-Yr and/or Regional Event**		Overtops during 100-Yr event; does not overtop during Regional event
Clearance (m) **during Regulatory flow**		-1.14
Water Level Source		XS: 670 (Upstream)

As indicated by TRCA (January 29, 2024, Hydraulic section, comment #3), if the proposed uncontrolled flows overtop Mayfield Road, TRCA requires that either the crossing be upsized, or a relief culvert be provided.

It is noted that the proposed stormwater management (SWM) system on Site consists of two (2) SWM wetlands to control the design storm events (2-year to 100-year storm events) and a downstream dry pond for control of the Regional Storm event. Flows from the Site are routed through either of the SWM wetlands and the dry pond prior to discharging to the Mayfield Road culvert. Given the redundancy provided in the proposed SWM system on Site, it is very unlikely that all SWM control measures within the property would fail at the same time therefore, Crozier has requested that TRCA consider the scenario where the two SWM wetlands fail, leaving only the dry pond control. Results from this scenario show that the existing Mayfield Road culvert has sufficient capacity to convey the 100-year storm flows and meets the freeboard criteria, clearance criteria, overtopping criteria and depth of flow criteria.

In the event that the request above is not accepted, relief culverts have been preliminarily sized to confirm feasibility of conveyance of the 100-year uncontrolled flows, without overtopping Mayfield Road. The relief culverts have been proposed with an upstream invert elevation above the expected controlled 5-year storm water level. As outlined in Table 15, two (2) 900 mm diameter CSP relief culvert at Mayfield Road allow for conveyance of the uncontrolled proposed flows in the east tributary and meets the freeboard criteria, clearance criteria, and overtopping criteria during the Regulatory flow (greater of the 100-year uncontrolled or Regional Storm event). Since the 6-hour SCS

design storm had a greater flow for the controlled 100-year event, this value was used to evaluate the design criteria to be more conservative.

Table 15: Summary of Crossing Details and Hydraulic Considerations for Uncontrolled Flows with Proposed Relief Culvert

Crossing No.		Proposed Conditions
Road Classification (Design Flood Frequency per Town Standards)		Major Arterial (Design Flow = 100Yr)
Approx. Edge of Asphalt Grade (masl)		230.69
100-Yr Event (6-hr SCS)	Flow Rate (m^3/s)	34.83
	Headwater Elevation (masl)	229.63
	Freeboard (m)	1.06
	Depth of Flow (m)	1.83
Regional Event	Flow Rate (m^3/s)	26.96
	Headwater Elevation (masl)	229.63
	Freeboard (m)	1.06
	Depth of Flow (m)	1.83
Freeboard (m) **during Regulatory Flow**		1.06
Overtopping (m) **during 100-Yr and/or Regional Event**		Does not overtop during 100-Yr or Regional Event
Clearance (m) **during Regulatory Flow**		0.00
Water Level Source		XS: 670 (Upstream)

It is noted that the sizing of the relief culvert is preliminary only. Coordination with TRCA is ongoing to confirm whether this mitigation measure is required.

6.0 Conclusion

We trust that the information provided for the east tributary and Salt Creek hydraulic analyses are in general conformance with the Town of Caledon and TRCA standards and we recommend the approval of the design. The following is noted:

- The existing tributaries on Site are proposed to be removed and the flows directed to a wetland designed with a low-flow channel to provide flood storage.

We trust that this analysis meets the TRCA requirements to support the proposed development and recommend that the design outlined within this report is accepted such that the owner can proceed with the Official Plan Amendment for the proposed development.

Respectfully submitted,

C.F. CROZIER & ASSOCIATES INC.

Isabelle Forsyth, P.Eng.
Project Engineer

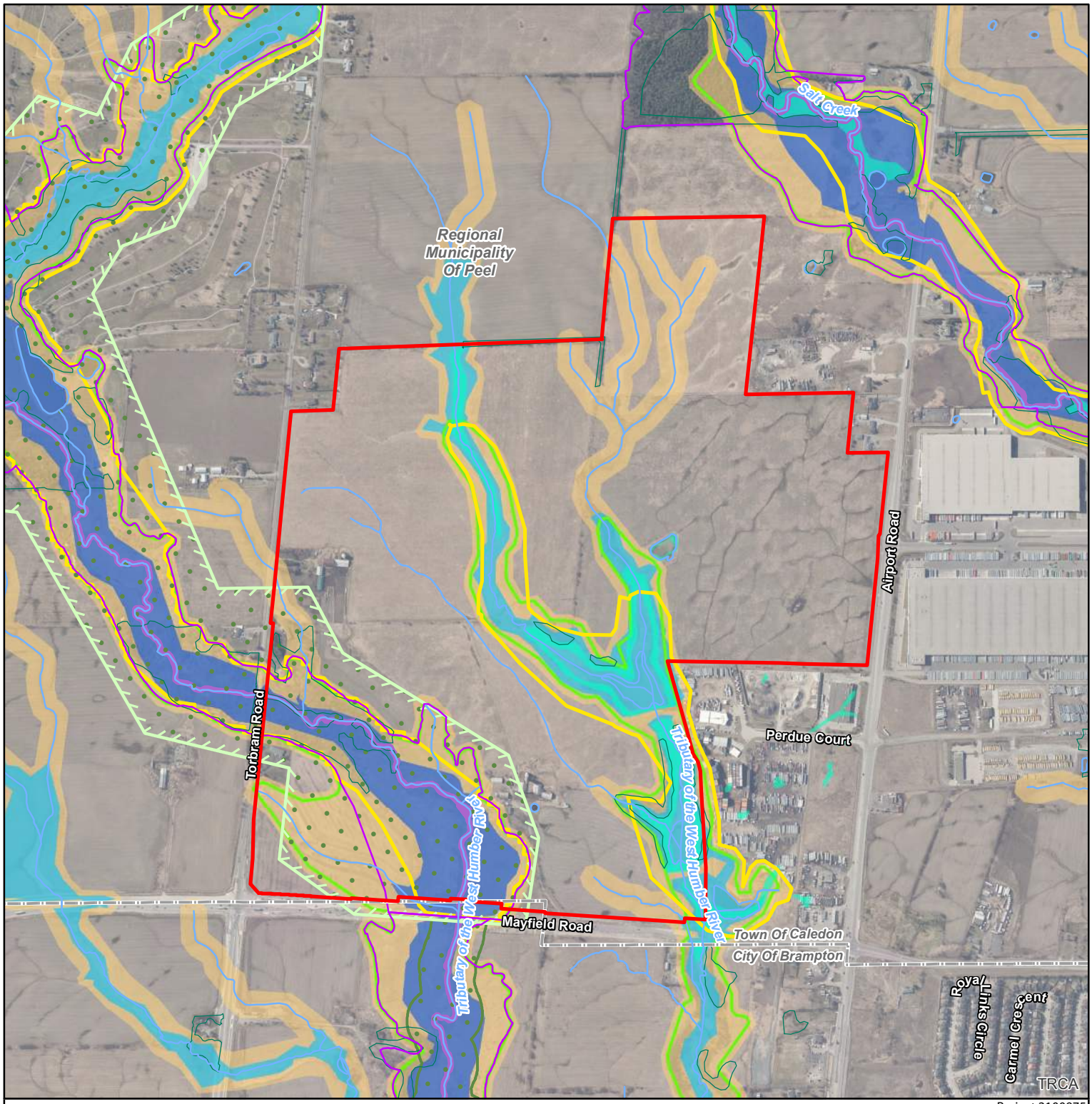
C.F. CROZIER & ASSOCIATES INC.



Rebecca Archer, P.Eng.
Senior Project Engineer

ED/stm
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FIGURES



Project 2100975

Comprehensive Environmental Impact Study and Management Plan, Tullamore Employment Lands
Tullamore Industrial LP

Figure 1
Landscape Setting

NOTES:
1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2021; Town of Caledon, 2021; Toronto Region Conservation Authority, 2021; Region of Peel, 2021.
3. Orthoimagery © First Base Solutions, 2021. Imagery taken in 2019.

Legend

- Subject Lands (approximate)
- Aquatic Species at Risk - Fish
- Watercourse (TRCA)
- Waterbody
- Wetland - Not Evaluated per OWES
- Wooded Area
- Municipal Boundary, Lower/Single Tier
- Greenbelt Boundary
- Greenbelt NHS
- Core Areas of the Greenlands System (Region of Peel)
- Environmental Policy Area (Town of Caledon)
- TRCA Regulation Limits
- Crest of Slope (TRCA)
- Meander Belt (TRCA)
- Flood Hazard (Engineered) (TRCA)
- Flood Hazard (Estimated) (TRCA)

0 200 m
1:12,000

GEI Consultants
Savanta Division

Path: C:\SAVANTA\2100975 - Tullamore Emp Lands\figures\report_figures\2021 06 22 eis\2100975_rpt_fig02_landscape_setting.mxd Date Saved: Wednesday, November 10, 2021



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (1.0m)
- EXISTING CONTOUR (2.0m)
- WATERCOURSE
- EXISTING TRCA CATCHMENT BOUNDARY
- CROZIER EXISTING CATCHMENT BOUNDARY
- AREA ADDED TO CATCHMENT 32.27
- AREA ADDED TO CATCHMENT 32.28
- AREA ADDED TO CATCHMENT 32.29
- AREA ADDED TO CATCHMENT 35.12
- AREA ADDED TO CATCHMENT 35.13
- AREA ADDED TO CATCHMENT EXT-GOLF
- ID / AREA (Ha) | SCS CURVE NUMBER
- 35.12 TRCA CATCHMENT ID
- EXISTING OVERLAND FLOW DIRECTION

31.01
35.13
32.28
32.27
32.29
35.12
32.22
EXT-GOLF
TORBRAM ROAD
AIRPORT ROAD
MAYFIELD ROAD
EXT5 0.9|84
111 0.1|84
EXT4 4.9|79
EXT6 0.5|84
110 9.7|84
103 17.0|84
107 1.7|84
102 46.7|82
EXT7 1.4|84
EXT3 3.4|79
104 32.0|84
108 11.3|84
109 7.7|82
106 31.0|79
105 11.1|80
EXT2 1.3|79
101 34.6|79
EXT1 0.6|79
EXT8 0.9|79

Catchment ID	TRCA Model Area (ha)	TRCA Catchment CAD Area (ha)	Area Added to TRCA Catchment (ha)	Area Removed From TRCA Catchment (ha)	Revised Catchment Area (ha)
32.28	141.15	141.14	18.71	11.45	148.40
32.29	36.01	35.94	0.61	6.74	29.81
31.01	280.69	280.45	0.00	4.36	276.09
32.22	54.85	54.85	0.00	6.13	48.72
32.27	104.03	106.45	0.75	1.35	105.86
35.12	74.34	74.31	2.25	0.56	76.00
35.13	214.45	214.41	0.54	1.66	213.28
EXT - GOLF	N/A	0.00	9.39	0.00	9.39
TOTAL	**905.52**	**907.55**	**32.25**	**32.25**	**907.55**

100 0m 100 200

SCALE: 1:3000

No.	ISSUE / REVISION	YYYY/MMM/DD
3	RE-ISSUED FOR OPA	2024/MAR/05
2	RE-ISSUED FOR DPOS & OPA	2023/OCT/30
1	RE-ISSUED FOR DPOS & OPA	2023/APR/06
0	ISSUED FOR DPOS, OPA & ZBA	2021/JUN/29

Stamp

FOR REVIEW
NOT TO BE USED FOR CONSTRUCTION

BEARING NOTE:

BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0) & (1997.0).

SURVEY COMPLETED BY YOUNG & YOUNG SURVEYING INC. & J.D.BARNES LIMITED DATED 2021/OCT/07, 2021/OCT/14 & 2018/NOV/28, PROJECT Nos. 21-B7601-4, 21-B7601-5 & 18-3U-308-00-4.

EXISTING GROUND CONTOURS OUTSIDE OF SITE LIMITS AND INSIDE EXISTING FLOOD PLAIN BASED ON LIDAR SURVEY FROM EQUATORSTUDIOS.

ELEVATION NOTE:

ELEVATIONS HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE CGVD-1928: 1978 DATUM.

ELEVATION HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT No. 042200365 (NAD ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135m.

SITE BENCHMARK:

A NAIL HAVING ELEVATION 241.24m WAS SET 12.12m EAST OF THE SOUTHEAST CORNER OF THE PROPERTY ALONG AIRPORT ROAD.

A CUT CROSS HAVING ELEVATION 242.51m WAS SET ON THE NORTHEAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD

DRAFT PLAN NOTES:

DESIGN ELEMENTS ARE BASED ON DRAFT PLAN BY WESTON CONSULTING INC.
DRAWING No.: D3
FILE No.: 10208

DRAWING NOTES:

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. AND THE REPRODUCTION OF ANY PART OF IT WITHOUT PRIOR WRITTEN CONSENT OF THIS OFFICE IS STRICTLY PROHIBITED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.

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ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

Project

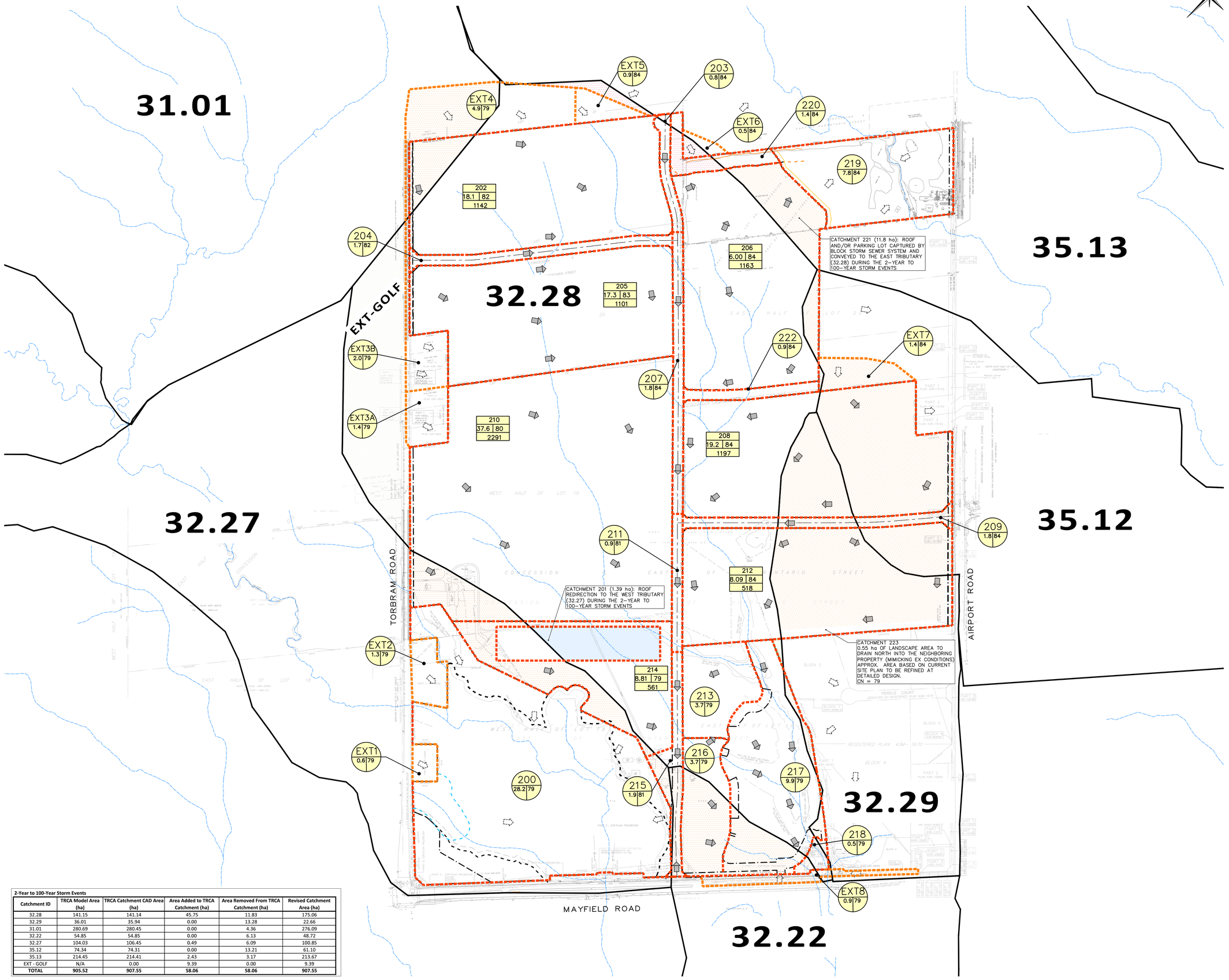
TULLAMORE LANDS
TOWN OF CALEDON

Drawing

PRE-DEVELOPMENT HUMBER HYDROLOGY AREA UPDATES

CROZIER CONSULTING ENGINEERS
2800 High Point Drive
Suite 100
Milton, ON L9T 6P4
905-875-0926 T
905-875-4915 F
www.cfcrozier.ca

Drawn	L.E.	Design	I.F.	Project No.	2022-5842
Check	I.F.	Check	R.S.A.	Scale	1:3000
				Dwg.	FIG 2





LEGEND

- PROPERTY LINE
- WATERCOURSE
- TRCA CATCHMENT BOUNDARY
- CROZIER EXISTING EXTERNAL CATCHMENT BOUNDARY
- CROZIER INTERNAL PROPOSED CATCHMENT BOUNDARY
- AREA ADDED TO CATCHMENT 32.27
- AREA ADDED TO CATCHMENT 32.28
- AREA ADDED TO CATCHMENT 32.29
- AREA ADDED TO CATCHMENT 35.12
- AREA ADDED TO CATCHMENT 35.13
- AREA ADDED TO CATCHMENT EXT-GOLF
- 35.12 TRCA CATCHMENT ID
- PROPOSED OVERLAND FLOW DIRECTION
- EXISTING OVERLAND FLOW DIRECTION
- ID / A | CN — CROZIER CATCHMENT I.D. / AREA (Ha) | SCS CURVE NUMBER
- ID / A | CN / Q — CATCHMENT I.D. / AREA (Ha) | SCS CURVE NUMBER / ALLOWABLE RELEASE RATE (L/s)

2-Year to 100-Year Storm Events

Catchment ID	TRCA Model Area (ha)	TRCA Catchment CAD Area (ha)	Area Added to TRCA Catchment (ha)	Area Removed From TRCA Catchment (ha)	Revised Catchment Area (ha)
32.28	141.15	141.14	45.75	11.83	175.06
32.29	36.01	35.94	0.00	13.28	22.66
31.01	280.69	280.45	0.00	4.36	276.09
32.22	54.85	54.85	0.00	6.13	48.72
32.27	104.03	106.45	0.49	6.09	100.85
35.12	74.34	74.31	0.00	13.21	61.10
35.13	214.45	214.41	2.43	3.17	213.67
EXT - GOLF	N/A	0.00	9.39	0.00	9.39
TOTAL	**905.52**	**907.55**	**58.06**	**58.06**	**907.55**

100 0m 100 200 300 400
SCALE: 1:5000

No.	ISSUE / REVISION	YYYY/MMM/DD
3	RE-ISSUED FOR OPA	2024/MAR/05
2	RE-ISSUED FOR DPOS & OPA	2023/OCT/30
1	RE-ISSUED FOR DPOS & OPA	2023/APR/06
0	ISSUED FOR DPOS, OPA & ZBA	2021/JUN/29

Stamp

FOR REVIEW
NOT TO BE USED FOR CONSTRUCTION

BEARING NOTE:

BEARINGS ARE UTM GRID, DERIVED FROM GPS OBSERVATION USING THE "TOPNET" GPS NETWORK OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0) & (1997.0).

SURVEY COMPLETED BY YOUNG & YOUNG SURVEYING INC. & J.D.BARNES LIMITED DATED 2021/OCT/07, 2021/OCT/14 & 2018/NOV/28, PROJECT Nos. 21-B7601-4, 21-B7601-5 & 18-308-GD-4.

EXISTING GROUND CONTOURS OUTSIDE OF SITE LIMITS AND INSIDE EXISTING FLOOD PLAIN BASED ON LIDAR SURVEY FROM EQUATORSTUDIOS.

ELEVATION NOTE:

ELEVATIONS HERON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE CGVD-1928: 1978 DATUM.

ELEVATION HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT No. 042200365 (NAD ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135m.

SITE BENCHMARK:

A NAIL HAVING ELEVATION 241.24m WAS SET 12.12m EAST OF THE SOUTHEAST CORNER OF THE PROPERTY ALONG AIRPORT ROAD.

A CUT CROSS HAVING ELEVATION 242.51m WAS SET ON THE NORTHEAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD

DRAFT PLAN NOTES:

DESIGN ELEMENTS ARE BASED ON DRAFT PLAN BY WESTON CONSULTING INC.
DRAWING No.: D3
FILE No.: 1020B

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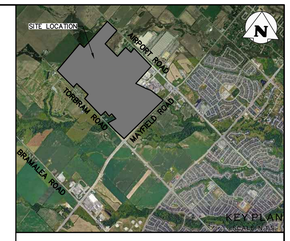
ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

Project
TULLAMORE LANDS
TOWN OF CALEDON

Drawing
POST-DEVELOPMENT HUMBER HYDROLOGY AREA UPDATEDS (DESIGN STORM EVENTS)

CROZIER CONSULTING ENGINEERS
2800 High Point Drive
Suite 100
Milton, ON L9T 6P4
905-875-0026 T
905-875-4915 F
www.cfcrozier.ca

Drawn	L.E.	Design	I.F.	Project No.	2022-5842
Check	I.F.	Check	R.S.A.	Scale	1:3000
				Dwg.	FIG 3A



LEGEND

- PROPERTY LINE
- WATERCOURSE
- TRCA CATCHMENT BOUNDARY
- CROZIER EXISTING EXTERNAL CATCHMENT BOUNDARY
- CROZIER INTERNAL PROPOSED CATCHMENT BOUNDARY
- AREA ADDED TO CATCHMENT 32.27
- AREA ADDED TO CATCHMENT 32.28
- AREA ADDED TO CATCHMENT 32.29
- AREA ADDED TO CATCHMENT 35.12
- AREA ADDED TO CATCHMENT 35.13
- AREA ADDED TO CATCHMENT EXT–GOLF
- 35.12 TRCA CATCHMENT ID
- PROPOSED OVERLAND FLOW DIRECTION
- EXISTING OVERLAND FLOW DIRECTION
- ID / A | CN — CROZIER CATCHMENT I.D. / AREA (Ha) | SCS CURVE NUMBER
- ID / A | CN / Q — CATCHMENT I.D. / AREA (Ha) | SCS CURVE NUMBER / ALLOWABLE RELEASE RATE (L/s)

31.01

32.27

35.13

35.12

32.29

32.22

32.28

EXT-GOLF

TORBRAM ROAD

AIRPORT ROAD

MAYFIELD ROAD

EXT5 0.9|84

203 0.8|84

EXT4 4.9|79

220 1.4|84

EXT6 0.5|84

219 7.8|84

202 18.1|82 1142

CATCHMENT 221 (11.8ha): ROOF AND/OR PARKING LOT AREA FLOWING OVERLAND TOWARDS SALT CREEK (35.13) DURING THE REGIONAL STORM EVENT

206 6.00|84 1163

204 1.7|82

205 17.3|83 1101

EXT3B 2.0|79

222 0.9|84

EXT7 1.4|84

207 1.8|84

EXT3A 1.4|79

210 37.6|80 2291

208 19.2|84 1197

211 0.9|81

209 1.8|84

212 8.09|84 518

CATCHMENT 201 (1.39ha): ROOF DIRECTED TO THE EAST TRIBUTARY (32.28) DURING THE REGIONAL STORM EVENT

CATCHMENT 223 0.55 ha OF LANDSCAPE AREA TO DRAIN NORTH INTO THE NEIGHBORING PROPERTY (MIMICKING EX CONDITIONS) APPROX. AREA BASED ON CURRENT SITE PLAN TO BE REFINED AT DETAILED DESIGN. CN = 79

EXT2 1.3|79

214 8.81|79 561

213 3.7|79

EXT1 0.6|79

216 3.7|79

217 9.9|79

200 28.2|79

215 1.9|81

218 0.5|79

EXT8 0.9|79

Regional Storm Event

Catchment ID	TRCA Model Area (ha)	TRCA Catchment CAD Area (ha)	Area Added to TRCA Catchment (ha)	Area Removed From TRCA Catchment (ha)	Revised Catchment Area (ha)
32.28	141.15	141.14	46.50	22.99	164.65
32.29	36.01	35.94	0.00	13.28	22.66
31.01	280.69	280.45	0.00	4.36	276.09
32.22	54.85	54.85	0.00	6.13	48.72
32.27	104.03	106.45	0.00	6.99	99.46
35.12	74.34	74.31	0.00	13.21	61.10
35.13	214.45	214.41	14.23	3.17	225.47
EXT - GOLF	N/A	0.00	9.39	0.00	9.39
TOTAL	**905.52**	**907.55**	**70.12**	**70.12**	**907.55**

Note: Catchment 201 (1.39 ha) directed to ponds (32.28) under Regional Storm rather than West Trib (32.27)
Catchment 221 (11.8 ha) directed to Salt Creek (35.13) under Regional Storm rather than ponds (32.28)

100 0m 100 200 300 400
SCALE: 1:5000

No.	ISSUE / REVISION	YYYY/MMM/DD
3	RE–ISSUED FOR OPA	2024/MAR/05
2	RE–ISSUED FOR DPOS & OPA	2023/OCT/30
1	RE–ISSUED FOR DPOS & OPA	2023/APR/06
0	ISSUED FOR DPOS, OPA & ZBA	2021/JUN/29

Stamp

FOR REVIEW
NOT TO BE USED FOR CONSTRUCTION

BEARING NOTE:

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SURVEY COMPLETED BY YOUNG & YOUNG SURVEYING INC. & J.D.BARNES LIMITED DATED 2021/OCT/07, 2021/OCT/14 & 2018/NOV/28, PROJECT Nos. 21–B7601–4, 21–B7601–5, & 18–30–308–00–4.

EXISTING GROUND CONTOURS OUTSIDE OF SITE LIMITS AND INSIDE EXISTING FLOOD PLAIN BASED ON LIDAR SURVEY FROM EQUATORSTUDIOS.

ELEVATION NOTE:

ELEVATIONS HERON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM GPS OBSERVATIONS USING THE "TOPNET" GPS NETWORK AND ARE REFERRED TO THE CGVD–1928: 1978 DATUM.

ELEVATION HEREON ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM CITY OF BRAMPTON MONUMENT No. 042200365 (NAD ADJUSTMENT) HAVING A PUBLISHED ELEVATION OF 242.135m.

SITE BENCHMARK:

A NAIL HAVING ELEVATION 241.24m WAS SET 12.12m EAST OF THE SOUTHEAST CORNER OF THE PROPERTY ALONG AIRPORT ROAD.

A CUT CROSS HAVING ELEVATION 242.51m WAS SET ON THE NORTHEAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD

DRAFT PLAN NOTES:

DESIGN ELEMENTS ARE BASED ON DRAFT PLAN BY WESTON CONSULTING INC.
DRAWING No.: 03
FILE No.: 10208

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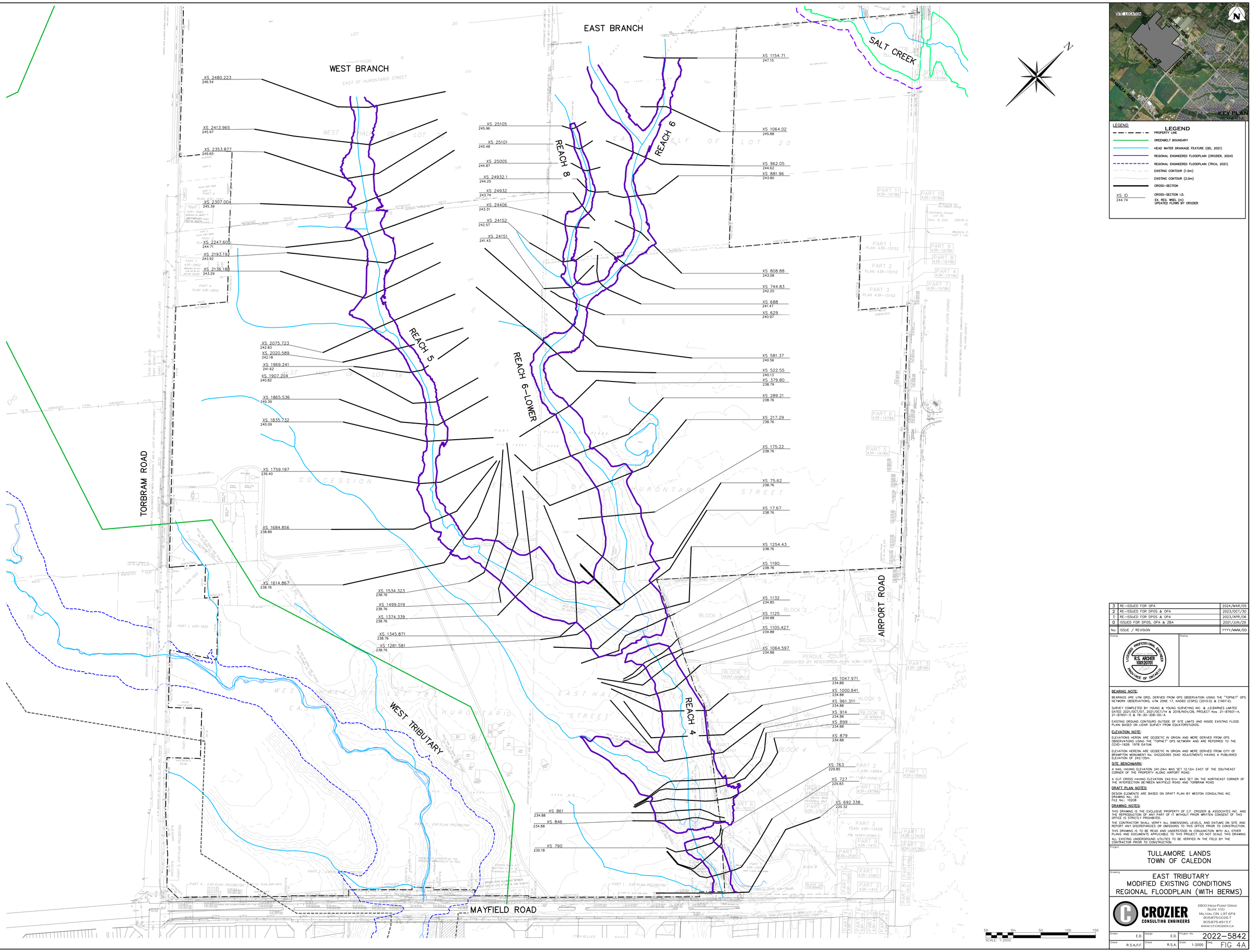
Project
TULLAMORE LANDS
TOWN OF CALEDON

Drawing
POST–DEVELOPMENT HUMBER HYDROLOGY AREA UPDATES (REGIONAL STORM EVENT)

CROZIER CONSULTING ENGINEERS
2800 High Point Drive
Suite 100
Milton, ON L9T 6P4
905 875 0026 T
905 875 4915 F
www.cfcrozier.ca

Drawn	L.E.	Design	I.F.	Project No.	2022–5842
Check	I.F.	Check	R.S.A.	Scale	1:3000

Dwg. FIG 3B



No.	ISSUE / REVISION	YYYY/MMM/DD
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0	ISSUED FOR DPOS, OPA & ZBA	2021/JUN/29

Stamp

R.S. ARCHER 100120701 LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

Stamp

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EXISTING GROUND CONTOURS OUTSIDE OF SITE LIMITS AND INSIDE EXISTING FLOOD PLAIN BASED ON LIDAR SURVEY FROM EQUATORSTUDIOS.

ELEVATION NOTE:

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Project

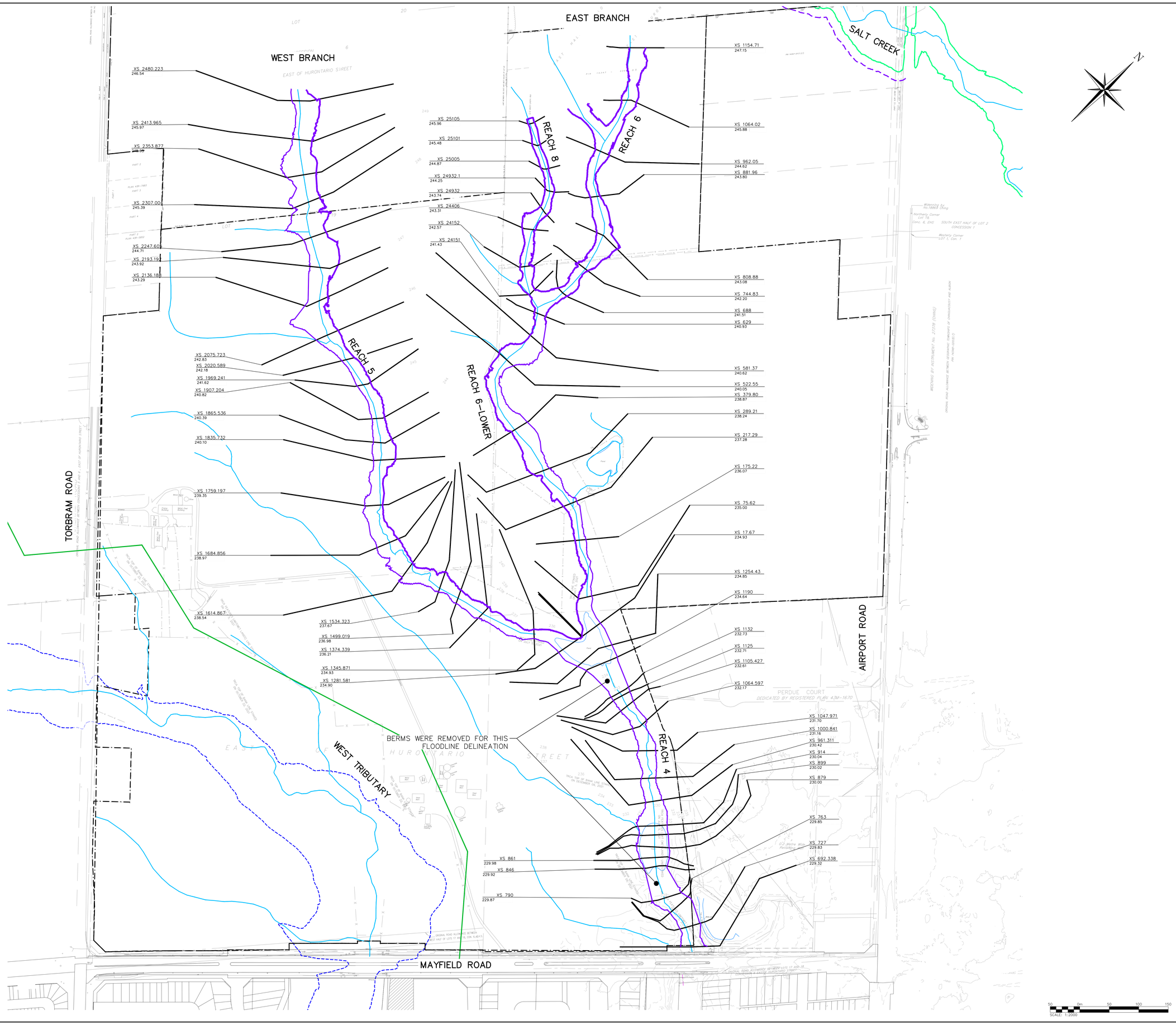
TULLAMORE LANDS
TOWN OF CALEDON

Drawing

EAST TRIBUTARY
MODIFIED EXISTING CONDITIONS
REGIONAL FLOODPLAIN (WITH BERMS)

CROZIER CONSULTING ENGINEERS
2800 High Point Drive
Suite 100
Milton, ON L9T 6P4
905-875-0026 T
905-875-4915 F
www.cfcrozier.ca

Drawn	E.D.	Design	E.D.	Project No.	2022-5842
Check	R.S.A/F.	Check	R.S.A.	Scale	1:2000
				Dwg.	FIG 4A



No.	ISSUE / REVISION	YYYY/MMM/DD
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0	ISSUED FOR DPOS, OPA & ZBA	2021/JUN/29

Stamp

LICENSED PROFESSIONAL ENGINEER
R.S. ARCHER
100120701
PROVINCE OF ONTARIO

Stamp

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Project

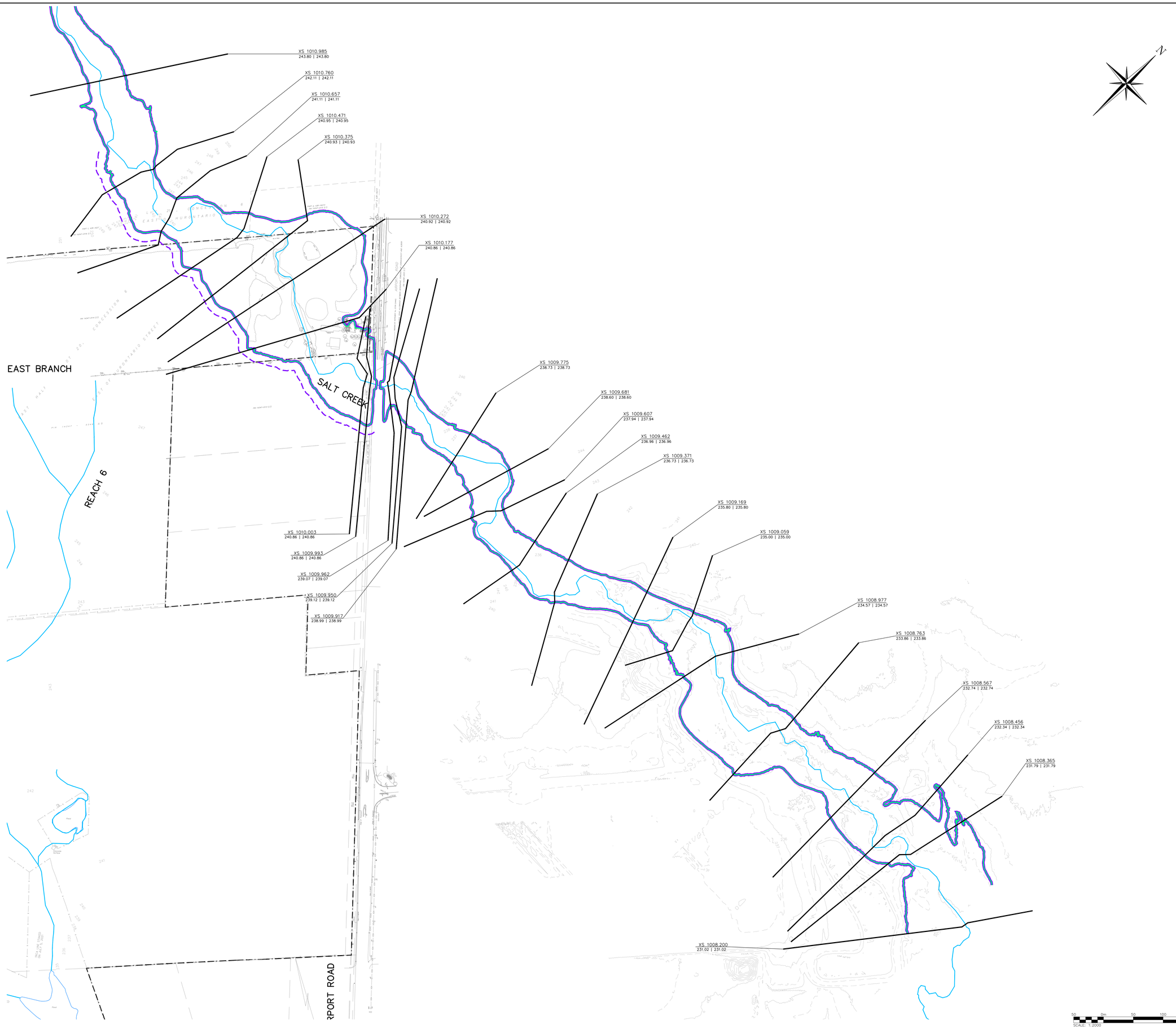
TULLAMORE LANDS
TOWN OF CALEDON

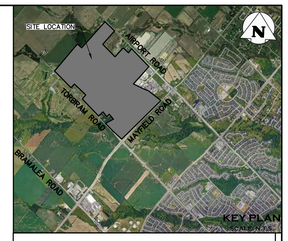
Drawing

EAST TRIBUTARY
MODIFIED EXISTING CONDITIONS
REGIONAL FLOODPLAIN (NO BERMS)

CROZIER CONSULTING ENGINEERS
2800 High Point Drive
Suite 100
Milton, ON L9T 6P4
905 875 0026 T
905 875 4915 F
www.cfcrozier.ca

Drawn	E.D.	Design	E.D.	Project No.	2022–5842
Check	R.S.A./I.F.	Check	R.S.A.	Scale	1:2,000
Dwg.	FIG 4B				





LEGEND

- PROPERTY LINE
- WATERCOURSE
- REGIONAL EXISTING FLOODPLAIN (CROZIER, 2024)
- REGIONAL EX. FLOODPLAIN 10m BUFFER (CROZIER, 2024)
- REGIONAL PROPOSED FLOODPLAIN (CROZIER, 2024)
- EXISTING CONTOUR (1.0m)
- EXISTING CONTOUR (2.0m)
- CROSS-SECTION

XS ID — CROSS-SECTION I.D.
244.74 | 244.76 — EX. REG. WSEL (m) UPDATED FLOWS BY CROZIER | PROP. REG. WSEL (m) UPDATED FLOWS BY CROZIER

No.	ISSUE / REVISION	YYYY/MMM/DD
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2	RE-ISSUED FOR DPOS & OPA	2023/OCT/30
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0	ISSUED FOR DPOS, OPA & ZBA	2021/JUN/29

Stamp: LICENCED PROFESSIONAL ENGINEER — R.S. ARCHER — 100120701 — PROVINCE OF ONTARIO

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FILE No.: 10208

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Project:
TULLAMORE LANDS
TOWN OF CALEDON

Drawing:
SALT CREEK
EXISTING & PROPOSED CONDITIONS
REGIONAL FLOODPLAIN

CROZIER CONSULTING ENGINEERS
2800 High Point Drive
Suite 100
Milton, ON L9T 6P4
905-875-0026 T
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www.crozier.ca

Drawn	Design	Project No.	
E.D.	E.D.	2022-5842	
Check	Check	Scale	Dwg.
R.S.A./F.	R.S.A.	1:2000	FIG 5

APPENDIX A

Topographic Survey/Draft Plan

TOPOGRAPHIC PLAN OF

PART OF LOTS 18, 19 AND 20 CONCESSION 6 EAST OF HURONTARIO STREET PART OF LOTS THE ROAD ALLOWANCE BETWEEN LOTS 17 AND 18 CONCESSION 6 EAST OF HURONTARIO STREET

(SUBJECT TO INTEREST OF THE REGIONAL MUNICIPALITY OF PEEL)

TOWN OF CALEDON
REGIONAL MUNICIPALITY OF PEEL

SCALE 1:2000

50 40 30 20 10 0 50 100 metres

YOUNG & YOUNG SURVEYING INC.
ONTARIO LAND SURVEYORS
© 2021

METRIC

DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NOTE

1) THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED FOR TRANSACTION OR MORTGAGE PURPOSES.
2) BOUNDARY INFORMATION IS COMPILED AND WAS DERIVED FROM LAND REGISTRY RECORDS AND DEPOSITED PLANS 43R-31492 AND 43R-36672.

BEARING NOTE

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LOCATED 72.80m SOUTH OF CENTRELINE OF MAYFIELD ROAD AND 19.81m EAST OF CENTRELINE OF TORBRAM ROAD.

SITE BENCHMARK:
A CUT CROSS HAVING ELEVATION 242.51 m WAS SET ON THE NORTHEAST CORNER OF THE INTERSECTION BETWEEN MAYFIELD ROAD AND TORBRAM ROAD

LEGEND

- DENOTES HYDRO POLE
- DENOTES GUY POLE
- DENOTES GUY WIRE
- DENOTES FIRE HYDRANT
- DENOTES BELL PEDESTAL
- DENOTES HAND WELL
- DENOTES MANHOLE
- DENOTES STORM MANHOLE
- DENOTES CATCHBASIN
- DENOTES DOUBLE CATCHBASIN
- DENOTES WATER VALVE
- DENOTES NATURAL GAS VALVE
- DENOTES TRAFFIC LIGHT
- DENOTES TRAFFIC LIGHT/STREET LIGHT
- DENOTES TRAFFIC SIGN
- DENOTES INVERT
- DENOTES HYDRO POLE/LIGHT STANDARD
- DENOTES CUT CROSS
- DENOTES CENTRELINE
- DENOTES TEMPORARY BENCHMARK
- DENOTES UNDERGROUND HYDRO
- DENOTES UNDERGROUND WATERMAIN
- DENOTES UNDERGROUND GAS
- DENOTES UNDERGROUND LIGHT STREET
- DENOTES UNDERGROUND BELL
- DENOTES UNDERGROUND STORM
- DENOTES OVERHEAD WIRES

REVISION NOTE

– THIS PLAN WAS REVISED ON OCTOBER 7, 2021 TO SHOW ADDITIONAL GROUND ELEVATION ON THE NORTH-WESTERLY QUADRATE OF THE PROPERTY WEST OF TORBRAM ROAD, AND EDGE OF PAVEMENT, TOP/BOTTOM OF OF BANK AND CENTRE LINE OF DITCH ALONG TORBRAM ROAD (BETWEEN THE EAST AND WEST PROPERTIES)

YOUNG & YOUNG SURVEYING INC.
A Subsidiary of Mauro Group Inc.
2 HOLLAND DRIVE, UNIT 5, BOLTON, ONTARIO L7E 1E1
PHONE 905.951.6000 – FAX 905.857.4811
www.youngsurveying.ca – info@youngsurveying.ca

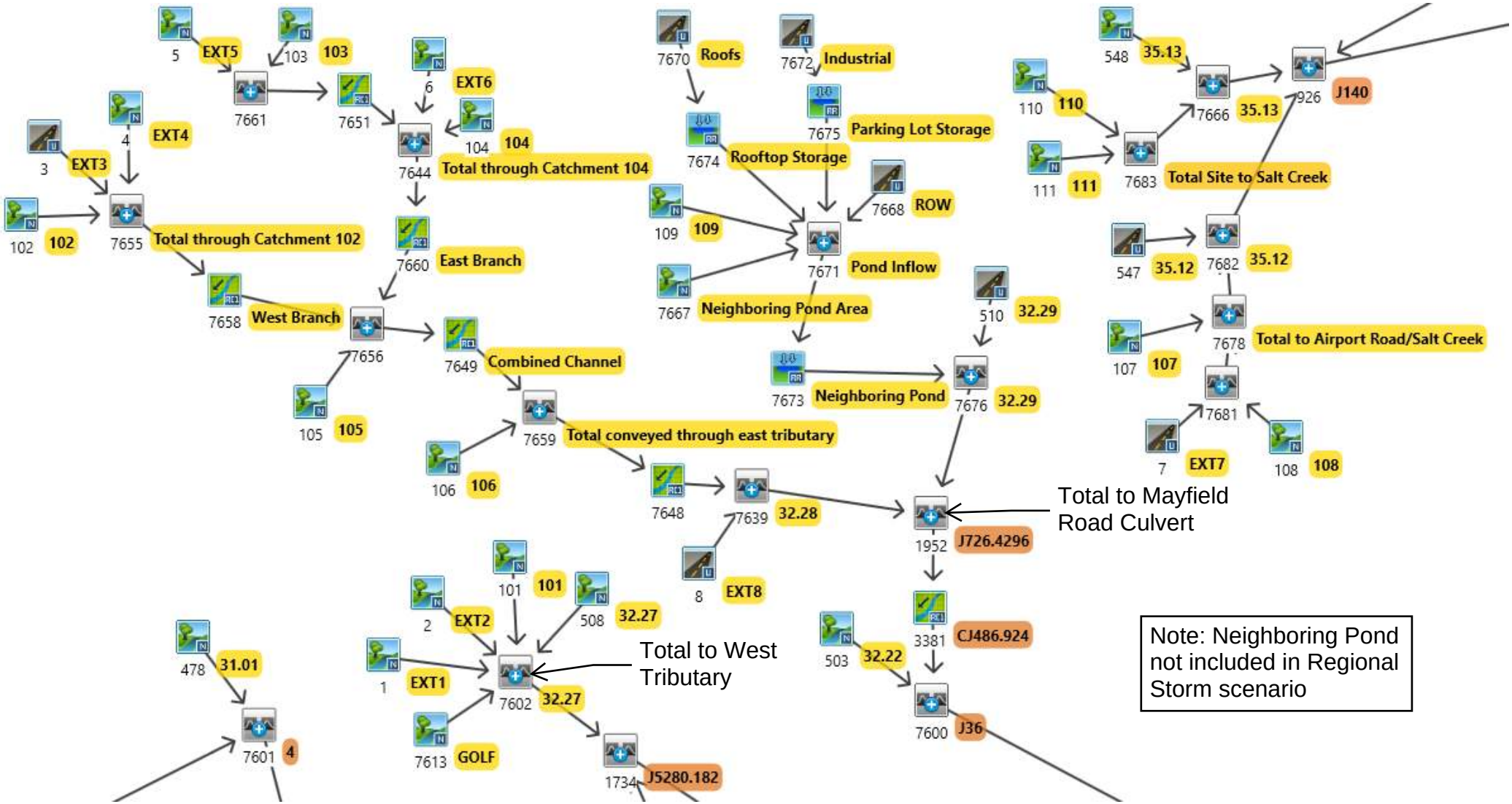
PARTY CHIEF: BP | DRAWN BY: IG | CHECKED BY: JA

PATH=F:\PROJECTS\2021\B7601\MISCAD\B7601_SKT_undg_utl_e_intrs_v2.DWG

PROJECT No. 21-B7601-4

APPENDIX B

Hydrologic Modeling



VO EXISTING MODEL SCHEMATIC
DATE: 2023-10-19
BY: IF
CHECK: RA

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**101**
Catchment AREA (ha)	**34.6**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 101

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	34.6
				0
Total Area Check				34.6

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveway		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.52	79				79					0.52

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL			34.1	79							34.1

CN Calculations		
	Total Area	34.6
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	34.08	0.25	0.25
Impervious	0.52	0.90	0.01
Total Subcatchment	**34.6**	**-**	**0.26**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	34.1	(Meadow)
Impervious	1	0.52	
Total	7.9	34.6	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
874	26	2.97%	2.3	0.40	0.61	0.37	0.37	0.47	0.31	0.94	0.63

Appropriate calculated time to peak:	0.63	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**102**
Catchment AREA (ha)	**46.7**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 102

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	51.2	23.9
Chinguacousy Clay Loam	CCL	C	48.8	22.8
Total Area Check				46.7

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveways		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL		98				89					0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			23.9	84							23.9
CCL			22.8	79							22.8
				CN Calculations			Total Area				46.7
							Composite Curve Number				82

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	46.70	0.25	0.25
Impervious	0.00	0.90	0.00
Gravel	0.00	0.60	0.00
Total Subcatchment	**46.7**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	46.7	(Meadow)
Impervious	1	0.00	
Total	8.0	46.7	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
1245	16.5	1.33%	2.3	0.26	1.31	0.78	0.78	0.76	0.51	1.48	0.99

Appropriate calculated time to peak:	0.99	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**103**
Catchment AREA (ha)	**17.0**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 103

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	17.0
Total Area Check				17.0

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveways		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
		98				89					0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			17.0	84							17.0

CN Calculations		
	Total Area	17.0
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	17.00	0.25	0.25
Impervious	0.00	0.90	0.00
Gravel	0.00	0.60	0.00
Total Subcatchment	**17.0**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	17.0	(Meadow)
Impervious	1	0.00	
Total	8.0	17.0	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
810	13	1.60%	2.3	0.29	0.77	0.46	0.46	0.53	0.35	1.12	0.75

Appropriate calculated time to peak:	0.75	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**104**
Catchment AREA (ha)	**32.0**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 104

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	32.0
Total Area Check				32.0

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveways		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
		98				89					0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			32.0	84							32.0

CN Calculations		
	Total Area	32.0
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	32.00	0.25	0.25
Impervious	0.00	0.90	0.00
Gravel	0.00	0.60	0.00
Total Subcatchment	**32.0**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	32.0	(Meadow)
Impervious	1	0.00	
Total	8.0	32.0	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
1162	17	1.46%	2.3	0.28	1.16	0.70	0.70	0.72	0.48	1.39	0.93

Appropriate calculated time to peak:	0.93	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME **105**
Catchment AREA (ha) **11.1**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 105

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	15	1.7
Chinguacousy Clay Loam	CCL	C	85	9.4
Total Area Check				11.1

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveways		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL		98				89					0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			1.7	84							1.7
CCL			9.4	79							9.4
				CN Calculations			Total Area				11.1
							Composite Curve Number				80

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
Pervious	11.10	0.25	0.25
Impervious	0.00	0.90	0.00
Gravel	0.00	0.60	0.00
Total Subcatchment	**11.1**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	11.1	(Meadow)
Impervious	1	0.00	
Total	8.0	11.1	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
382	5	1.31%	2.3	0.26	0.40	0.24	0.24	0.27	0.18	0.83	0.55

Appropriate calculated time to peak:	0.55	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**106**
Catchment AREA (ha)	**31.0**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 106

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	31.0
				0.0
Total Area Check				31.0

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveways		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.63	79				79					0.63

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL			30.4	79							30.4

CN Calculations		
	Total Area	31.0
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	30.4	0.25	0.24
Impervious	0.63	0.90	0.02
Total Subcatchment	**31.0**	**-**	**0.26**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	30.4	(Meadow)
Impervious	1	0.63	
Total	7.9	31.0	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
1448	21.8	1.51%	2.3	0.28	1.43	0.86	0.86	0.90	0.60	1.51	1.01

Appropriate calculated time to peak:	1.01	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**EXT1**
Catchment AREA (ha)	**0.6**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment EXT1

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	0.6
				0
Total Area Check				0.6

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.10	79			0.00						0.10

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL							0.5	79			0.5

CN Calculations	Total Area	0.6
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.50	0.25	0.21
Impervious	0.10	0.90	0.15
Total Subcatchment	**0.6**	**-**	**0.36**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	5	0.5	(Lawn)
Impervious	1	0.10	
Total	4.3	0.6	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
107	1	0.93%	2.3	0.22	0.13	0.08	0.08	0.11	0.07	0.43	0.29

Appropriate calculated time to peak:	0.29	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**EXT2**
Catchment AREA (ha)	**1.3**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment EXT2

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	1.3
				0
Total Area Check				1.3

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.20	79			0.00						0.20

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL							1.1	79			1.1

CN Calculations	Total Area	1.3
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	1.10	0.25	0.21
Impervious	0.20	0.90	0.14
Total Subcatchment	**1.3**	**-**	**0.35**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	5	1.1	(Lawn)
Impervious	1	0.20	
Total	4.4	1.3	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
184	11	5.98%	2.3	0.56	0.09	0.05	0.05	0.12	0.08	0.31	0.21

Appropriate calculated time to peak:	0.21	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
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By: IC
Check: RA

Catchment NAME	**EXT3**
Catchment AREA (ha)	**3.4**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment EXT3

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	3.4
				0
Total Area Check				3.4

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Area		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	1.27	79				79					1.27
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL			0.34	79			1.79	79			2.13

CN Calculations		
	Total Area	3.40
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	2.13	0.25	0.16
Impervious	1.27	0.90	0.34
Total Subcatchment	**3.4**	**-**	**0.49**

TIMP	**0.42**
XIMP	**0.22**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Meadow	8	0.34
Pervious	5	1.79
Impervious	2	1.27
Total	4.2	3.40

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.5	-	-	0.25
Impervious	2.0	0.7	745	0.013

Project Name: Tullamore Lands
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By: IC
Check: RA

Catchment NAME	**EXT4**
Catchment AREA (ha)	**4.9**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment EXT4

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	4.9
				0
Total Area Check				4.9

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL		79			0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL			4.9	79				79			4.9

CN Calculations	Total Area	4.9
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	4.90	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**4.9**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	4.9	(Meadow)
Impervious	1	0.00	
Total	8.0	4.9	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
180	1	0.56%	2.3	0.17	0.29	0.17	0.17	0.16	0.11	0.75	0.50

Appropriate calculated time to peak:	0.50	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**EXT5**
Catchment AREA (ha)	**0.9**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment EXT5

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	0.9
				0
Total Area Check				0.9

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			0.9	84							0.9

CN Calculations	Total Area	0.9
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.90	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**0.9**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	0.9	(Meadow)
Impervious	1	0.00	
Total	8.0	0.9	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
103	0.85	0.83%	2.3	0.21	0.14	0.08	0.08	0.10	0.07	0.50	0.33

Appropriate calculated time to peak:	0.33	Appropriate Method:	Airport

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By: IC
Check: RA

Catchment NAME	**EXT6**
Catchment AREA (ha)	**0.5**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment EXT6

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	0.5
				0
Total Area Check				0.5

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			0.5	84							0.5

CN Calculations	Total Area	0.5
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.50	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**0.5**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	0.5	(Meadow)
Impervious	1	0.00	
Total	8.0	0.5	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
79	2	2.53%	2.3	0.37	0.06	0.04	0.04	0.07	0.04	0.30	0.20

Appropriate calculated time to peak:	0.20	Appropriate Method:	Airport

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Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**107**
Catchment AREA (ha)	**1.7**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 107

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	1.7
				0
Total Area Check				1.7

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			1.7	84							1.7

CN Calculations		
	Total Area	1.7
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	1.7	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**1.7**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	1.7	(Meadow)
Impervious	1	0.00	
Total	8.0	1.7	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
75	0.5	0.67%	2.3	0.19	0.11	0.07	0.07	0.07	0.05	0.46	0.31

Appropriate calculated time to peak:	0.31	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME **EXT7**
Catchment AREA (ha) **1.4**

Hydrologic Parameters: STANDHYD Command
Pre-Development Drainage Area: Catchment EXT7

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	1.4
				0
Total Area Check				1.4

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Area		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC		98			1.40	84					1.40
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC								84			0.00

CN Calculations		
	Total Area	1.40
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
Pervious	0.00	0.25	0.00
Gravel	1.40	0.60	0.60
Total Subcatchment	**1.4**	**-**	**0.60**

TIMP	**0.57**
XIMP	**0.37**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.00
Gravel	2.5	1.40
Impervious	2	0.00
Total	2.5	1.40

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	2.5	-	-	0.25
Impervious	2.0	1.2	74	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**EXT8**
Catchment AREA (ha)	**0.9**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment EXT8

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	0.9
				0
Total Area Check				0.9

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Area		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.45	79				79					0.45

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Roadside Ditch		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL							0.45	79			0.45

CN Calculations		
	Total Area	0.90
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.45	0.25	0.13
Impervious	0.45	0.90	0.45
Total Subcatchment	**0.9**	**-**	**0.58**

TIMP	**0.54**
XIMP	**0.34**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.45
Impervious	2	0.45
Total	3.5	0.90

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2	313	0.25
Impervious	2.0	1	309	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**108**
Catchment AREA (ha)	**11.3**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 108

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	96.9	10.9
Chinguacousy Clay Loam	CCL	C	3.1	0.35
Total Area Check				11.3

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			10.9	84							10.9
CCL			0.35	79							0.35

CN Calculations		
	Total Area	11.3
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	11.3	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**11.3**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	11.3	(Meadow)
Impervious	1	0.00	
Total	8.0	11.3	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
448	5	1.12%	2.3	0.24	0.51	0.31	0.31	0.33	0.22	0.94	0.63

Appropriate calculated time to peak:	0.63	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**109**
Catchment AREA (ha)	**7.7**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 109

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	64.6	5.0
Chinguacousy Clay Loam	CCL	C	35.4	2.7
Total Area Check				7.7

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			5.0	84							5.0
			2.7	79							2.7
				CN Calculations			Total Area				7.7
							Composite Curve Number				82

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	7.7	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**7.7**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	7.7	(Meadow)
Impervious	1	0.00	
Total	8.0	7.7	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
297	3.25	1.09%	2.3	0.24	0.34	0.21	0.21	0.23	0.15	0.77	0.52

Appropriate calculated time to peak:	0.52	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**110**
Catchment AREA (ha)	**9.7**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 110

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	9.7
Total Area Check				9.7

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			9.7	84							9.7
											0.0
				CN Calculations			Total Area				9.7
							Composite Curve Number				84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	9.7	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**9.7**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	9.7	(Meadow)
Impervious	1	0.00	
Total	8.0	9.7	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
466	14.3	3.07%	2.3	0.40	0.32	0.19	0.19	0.28	0.19	0.69	0.46

Appropriate calculated time to peak:	0.46	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2023-10-27
By: IC
Check: RA

Catchment NAME	**111**
Catchment AREA (ha)	**0.1**

Hydrologic Parameters: NASHYD Command
Pre-Development Drainage Area: Catchment 111

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	0.1
Total Area Check				0.1

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			0.1	84							0.1
											0.0
			CN Calculations				Total Area				0.1
							Composite Curve Number				84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.1	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**0.1**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	0.1	(Meadow)
Impervious	1	0.00	
Total	8.0	0.1	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
70	0.5	0.71%	2.3	0.19	0.10	0.06	0.06	0.09	0.06	0.43	0.29

Appropriate calculated time to peak:	0.29	Appropriate Method:	Airport

```
**********************************
** SIMULATION:0. 25mm_4hr_Chicago **
**********************************
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0101  1  5.0   34.60    0.20  2.58   4.02 0.16   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.02  1.92   4.81 0.19   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.01  2.00   4.86 0.19   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    0.20  2.58   4.03  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    0.21  2.58   4.06  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.12  2.75   5.60 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.01  2.17   5.60 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.13  2.75   5.60  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.12  3.00   5.60  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.01  1.92   5.59 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
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    remark: 25mm_4hr_Chicago
```

```
*
 *  CALIB NASHYD         0104  1  5.0   32.00    0.20  3.00   5.60 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    0.20  3.00   5.60  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    0.32  3.00   5.60  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    0.27  3.67   5.60  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.03  2.42   3.97 0.16   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0102  1  5.0   46.70    0.23  3.08   4.68 0.19   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.07  1.83  10.06 0.40   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    0.25  3.00   5.04  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    0.28  2.92   4.95  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    0.27  3.17   4.95  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.07  2.50   3.97 0.16   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    0.32  3.00   4.78  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    0.57  3.33   5.14  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    0.57  3.50   5.14  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0106  1  5.0   31.00    0.13  3.17   4.02 0.16   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    0.69  3.42   4.90  n/a   0.000
*
```

```
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    0.68  3.67   4.90  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.04  1.67  12.42 0.50   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    0.69  3.67   4.95  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.03  1.67   6.40 0.26   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.06  2.42   4.68 0.19   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.05  1.67  15.06 0.60   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.06  1.67  23.27 0.93   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.09  2.33  23.22  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.41  1.67  20.93 0.84   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.82  1.75  20.93  n/a   0.000
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.06  2.33   4.88  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.08  1.67   5.66  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.16  2.33  13.42  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    0.96  1.75  16.41  n/a   0.000
*
 ** Reservoir
```

```
    OUTFLOW:            7673  1  5.0   28.21    0.08  4.50  16.37  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.09  2.33   5.60 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.00  2.08   5.59 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.10  2.33   5.60  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.02  2.08   5.60 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.09  2.58   5.60 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.08  1.67  14.08 0.56   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.11  2.50   6.53  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.12  2.33   6.42  n/a   0.000
*
*********************************
** SIMULATION:1. 2 Year 6 Hour **
*********************************
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    0.46  3.42   9.42 0.26   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB NASHYD         0002  1  5.0    1.30    0.03  2.83  10.06 0.28   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.01  2.92  10.12 0.28   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    0.46  3.42   9.43  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    0.48  3.42   9.45  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.27  3.58  12.52 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.02  3.00  12.51 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.29  3.58  12.52  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.27  3.75  12.52  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.02  2.83  12.49 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    0.45  3.83  12.52 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    0.45  3.83  12.52  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    0.73  3.83  12.52  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    0.62  4.33  12.52  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.07  3.25   9.36 0.26   0.000
```

```
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    0.54  3.92  10.77 0.30   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.10  2.92  17.51 0.49   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    0.58  3.83  11.22  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    0.63  3.83  11.06  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    0.62  4.00  11.06  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.16  3.33   9.36 0.26   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    0.73  3.92  10.77  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    1.32  4.17  11.53  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    1.30  4.25  11.53  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    0.31  4.00   9.42 0.26   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    1.60  4.25  11.08  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    1.57  4.42  11.08  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.03  2.75  20.61 0.57   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    1.58  4.42  11.14  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB NASHYD         7667  1  5.0    1.05    0.05  2.75  13.23 0.37   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.13  3.33  10.77 0.30   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.04  2.75  23.64 0.66   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.69  2.75  34.21 0.95   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.13  3.33  34.17  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    0.95  2.75  31.20 0.87   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.85  2.75  31.20  n/a   0.000
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.15  3.25  11.06  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.16  3.25  12.02  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.29  3.25  21.81  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    1.12  2.75  25.55  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.18  4.92  25.51  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.21  3.17  12.52 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.00  2.92  12.50 0.35   0.000
```

```
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.21  3.17  12.52  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.05  2.92  12.51 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.20  3.42  12.52 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.08  2.75  22.81 0.63   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.23  3.25  13.65  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.26  3.25  13.52  n/a   0.000
*
**********
** SIMULATION:2. 2 Year 12 Hour **
**********
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0101  1  5.0   34.60    0.47  5.67  12.94 0.31   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0002  1  5.0    1.30    0.03  5.25  13.43 0.32   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0001  1  5.0    0.60    0.01  5.33  13.50 0.32   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    0.48  5.67  12.95  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    0.49  5.67  12.97  n/a   0.000
*
```

```
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0103  1  5.0   17.00    0.28  5.83  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0005  1  5.0    0.90    0.02  5.33  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.29  5.75  16.84  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.28  6.00  16.84  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0006  1  5.0    0.50    0.01  5.25  16.81 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0104  1  5.0   32.00    0.46  6.08  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    0.47  6.08  16.84  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    0.75  6.08  16.84  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    0.66  6.67  16.84  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0004  1  5.0    4.90    0.08  5.50  12.88 0.31   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0102  1  5.0   46.70    0.56  6.25  14.67 0.35   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
```

```
 ** CALIB STANDHYD       0003  1  5.0    3.40    0.08  5.42  21.96 0.52   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    0.61  6.17  15.16  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    0.67  6.08  14.96  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    0.65  6.33  14.96  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0105  1  5.0   11.10    0.16  5.58  12.88 0.31   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    0.77  6.17  14.61  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    1.40  6.42  15.57  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    1.39  6.58  15.57  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0106  1  5.0   31.00    0.32  6.25  12.94 0.31   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    1.71  6.50  15.02  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    1.68  6.75  15.02  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB STANDHYD       0008  1  5.0    0.90    0.02  5.25  25.39 0.60   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    1.69  6.75  15.08  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         7667  1  5.0    1.05    0.03  5.25  17.43 0.42   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0109  1  5.0    7.70    0.13  5.50  14.66 0.35   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
```

```
*
 ** CALIB STANDHYD       7668  1  5.0    0.72    0.03  5.25  28.56 0.68   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.40  5.25  40.19 0.96   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.13  5.33  40.15  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    0.56  5.25  36.87 0.88   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.55  5.25  36.87  n/a   0.000
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.15  5.25  15.00  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.17  5.25  16.03  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.30  5.25  26.69  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    0.85  5.25  30.75  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.21  7.67  30.70  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.21  5.42  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.00  5.33  16.83 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.21  5.42  16.84  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.04  5.33  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
```

```
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.21  5.67  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.05  5.25  27.85 0.66   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.23  5.58  18.06  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.27  5.50  17.91  n/a   0.000
*
*********************************
** SIMULATION:3. 5 Year 6 Hour  **
*********************************
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    0.83  3.42  16.65 0.35   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.06  2.83  16.96 0.35   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.02  2.92  17.04 0.36   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    0.84  3.42  16.66  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    0.86  3.33  16.67  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.47  3.50  21.29 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.04  2.92  21.28 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
```

```
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.50  3.50  21.29  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.49  3.58  21.29  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.03  2.83  21.25 0.44   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    0.78  3.75  21.29 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    0.78  3.75  21.29  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    1.27  3.67  21.29  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    1.09  4.17  21.29  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.13  3.25  16.58 0.35   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    0.95  3.83  18.73 0.39   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.17  2.92  26.47 0.55   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    1.01  3.83  19.25  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    1.11  3.75  19.01  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    1.08  3.92  19.01  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.28  3.25  16.58 0.35   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
```

```
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    1.30  3.83  18.61  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    2.34  4.00  19.77  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    2.31  4.17  19.77  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    0.55  3.92  16.65 0.35   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    2.85  4.08  19.11  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    2.79  4.33  19.11  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.04  2.75  30.18 0.63   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    2.80  4.33  19.18  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.08  2.75  21.72 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.23  3.25  18.72 0.39   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.06  2.75  33.44 0.70   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.91  2.75  45.98 0.96   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.17  3.33  45.94  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.28  2.75  42.40 0.89   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.15  2.75  42.40  n/a   0.000
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.26  3.25  19.08  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.28  3.25  20.18  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.46  3.25  31.56  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    1.57  2.75  35.88  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.29  4.67  35.84  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.36  3.08  21.29 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.00  2.92  21.27 0.44   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.37  3.08  21.29  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.08  2.92  21.28 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.35  3.33  21.29 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.12  2.75  32.86 0.69   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.39  3.25  22.56  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.45  3.25  22.41  n/a   0.000
```

```
*
**********************************
** SIMULATION:4. 5 Year 12 Hour  **
**********************************
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    0.79  5.67  21.13 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.04  5.25  21.23 0.39   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.02  5.33  21.32 0.39   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    0.80  5.58  21.13  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    0.83  5.58  21.14  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.46  5.75  26.55 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.04  5.33  26.54 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.48  5.75  26.55  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.47  5.83  26.55  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.02  5.25  26.50 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
```

```
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    0.75  6.00  26.55 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    0.76  6.00  26.55  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    1.23  5.92  26.55  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    1.08  6.50  26.55  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.13  5.50  21.06 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    0.93  6.17  23.59 0.43   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.13  5.33  31.75 0.58   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    1.00  6.08  24.14  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    1.09  6.00  23.87  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    1.07  6.25  23.87  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.27  5.50  21.06 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    1.27  6.08  23.39  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    2.31  6.33  24.76  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    2.30  6.42  24.76  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    0.54  6.17  21.13 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    2.83  6.42  24.00  n/a   0.000
```

```
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    2.78  6.67  24.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.03  5.25  35.74 0.66   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    2.79  6.67  24.07  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.05  5.25  26.79 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.22  5.50  23.58 0.43   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.04  5.25  39.08 0.72   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.52  5.25  52.54 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.17  5.33  52.49  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    0.73  5.25  48.69 0.90   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.72  5.25  48.69  n/a   0.000
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.24  5.25  23.97  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.28  5.25  25.12  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.44  5.25  37.22  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    1.17  5.25  41.79  n/a   0.000
*
```

```
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.31  7.42  41.75  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.34  5.42  26.55 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.00  5.33  26.53 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.34  5.42  26.55  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.07  5.33  26.54 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.33  5.58  26.55 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\54f07d91-6525-454c-87f1-c27fc3a42fbd\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.07  5.25  38.64 0.71   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.37  5.50  27.88  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.43  5.50  27.73  n/a   0.000
*
```

```
***********************************
** SIMULATION:10. 50 Year 12 Hour **
***********************************
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.08  5.25  40.51 0.50   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    1.59  5.58  41.32 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.04  5.25  40.63 0.50   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    1.62  5.58  41.31  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    1.66  5.58  41.28  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    1.81  6.00  45.07 0.56   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.25  5.42  41.24 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.24  5.33  54.39 0.67   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    1.93  6.00  45.71  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    2.13  5.83  45.31  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    2.09  6.08  45.31  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
```

```
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.04  5.25  49.25 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.86  5.67  49.35 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                 15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.07  5.33  49.33 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.91  5.67  49.35  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.89  5.83  49.35  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    1.43  5.92  49.35 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    1.44  5.92  49.35  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    2.33  5.83  49.35  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    2.15  6.17  49.35  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.55  5.50  41.24 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    2.52  5.92  44.63  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    4.63  6.08  46.67  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    4.59  6.25  46.67  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    1.08  6.08  41.32 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    5.66  6.17  45.54  n/a   0.000
*
```

```
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    5.56  6.42  45.54  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.06  5.25  59.24 0.73   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    5.59  6.42  45.63  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.08  5.25  48.59 0.60   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.43  5.50  45.07 0.56   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.77  5.25  78.92 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.25  5.33  78.88  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.11  5.25  74.29 0.92   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.09  5.25  74.29  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.06  5.25  62.70 0.78   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.48  5.25  45.49  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.54  5.25  46.80  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.78  5.25  60.98  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    1.88  5.25  66.28  n/a   0.000
*
 ** Reservoir
```

```
    OUTFLOW:            7673  1  5.0   28.21    0.53  7.25  66.24  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD        0110  1  5.0    9.70    0.63  5.42  49.34 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD        0111  1  5.0    0.10    0.01  5.25  49.32 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.64  5.42  49.34  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD        0107  1  5.0    1.70    0.13  5.25  49.33 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD        0108  1  5.0   11.30    0.63  5.58  49.35 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD      0007  1  5.0    1.40    0.12  5.25  62.81 0.78   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.69  5.50  50.83  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.81  5.42  50.65  n/a   0.000
*
***********************************
** SIMULATION:11. 100 Year 6 Hour **
***********************************
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD        0002  1  5.0    1.30    0.14  2.83  40.11 0.50   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB NASHYD         0101  1  5.0   34.60    2.09  3.33  40.91 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.06  2.83  40.23 0.50   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    2.12  3.33  40.90  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    2.18  3.33  40.87  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    2.30  3.75  44.64 0.56   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.34  3.17  40.83 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.40  2.83  53.94 0.67   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    2.43  3.75  45.27  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    2.68  3.58  44.87  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    2.63  3.83  44.87  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.07  2.75  48.80 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    1.12  3.42  48.89 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.10  2.92  48.88 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    1.17  3.42  48.89  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    1.16  3.50  48.89  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    1.82  3.67  48.89 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    1.83  3.67  48.89  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    2.98  3.58  48.89  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    2.82  3.83  48.89  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.73  3.25  40.83 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    3.20  3.67  44.19  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    5.96  3.75  46.23  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    5.90  3.92  46.23  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    1.38  3.83  40.91 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    7.27  3.92  45.11  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    7.12  4.08  45.11  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.09  2.75  58.77 0.73   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    7.15  4.08  45.19  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB NASHYD         7667  1  5.0    1.05    0.16  2.75  48.15 0.60   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.58  3.17  44.64 0.56   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.54  2.75  78.41 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.30  3.33  78.37  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    2.21  2.75  73.79 0.92   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    2.00  2.75  73.79  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.12  2.75  62.23 0.77   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.62  3.17  45.06  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.67  3.17  46.36  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.96  3.17  60.51  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    2.92  2.75  65.80  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.58  4.50  65.76  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.86  3.08  48.89 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.01  2.83  48.86 0.61   0.000
```

```
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.87  3.08  48.89  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.19  2.92  48.87 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.83  3.33  48.89 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.24  2.75  62.34 0.78   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.91  3.25  50.37  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    1.04  3.17  50.20  n/a   0.000
*
************************************
** SIMULATION:12. 100 Year 12 Hour **
************************************
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.10  5.25  46.61 0.53   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    1.84  5.58  47.67 0.54   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.04  5.25  46.74 0.53   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    1.87  5.58  47.66  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    1.93  5.50  47.62  n/a   0.000
*
```

```
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    2.09  6.00  51.74 0.58   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.29  5.42  47.59 0.54   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.27  5.25  61.28 0.69   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    2.22  5.92  52.39  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    2.45  5.83  51.96  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    2.41  6.00  51.96  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.05  5.25  56.21 0.63   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.99  5.67  56.32 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.07  5.33  56.30 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    1.04  5.67  56.32  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    1.03  5.75  56.32  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    1.64  5.92  56.32 0.64   0.000
```

```
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    1.65  5.92  56.32  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    2.67  5.83  56.32  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    2.51  6.08  56.32  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.63  5.50  47.59 0.54   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    2.92  5.92  51.23  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    5.39  6.00  53.43  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    5.34  6.17  53.43  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    1.25  6.08  47.68 0.54   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    6.59  6.17  52.22  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    6.48  6.33  52.22  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.06  5.25  66.32 0.75   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    6.51  6.33  52.31  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.10  5.25  55.24 0.62   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.49  5.42  51.74 0.58   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.85  5.25  86.63 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.27  5.33  86.58  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.22  5.25  81.82 0.92   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.20  5.25  81.82  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.07  5.25  69.79 0.79   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.55  5.25  52.16  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.62  5.25  53.50  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.89  5.25  68.12  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    2.09  5.25  73.58  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.58  7.33  73.54  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.72  5.42  56.32 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.01  5.25  56.29 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.73  5.42  56.32  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.14  5.25  56.30 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
```

```
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.72  5.58  56.32 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.14  5.25  70.05 0.79   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.79  5.50  57.83  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.93  5.42  57.65  n/a   0.000
*
*********************************
** SIMULATION:5. 10 Year 6 Hour **
*********************************
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.07  2.83  22.11 0.40   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    1.10  3.33  22.06 0.40   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.03  2.92  22.20 0.40   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    1.12  3.33  22.06  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    1.16  3.33  22.06  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    1.25  3.83  24.58 0.44   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.18  3.17  21.98 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
```

```
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.22  2.83  32.82 0.59   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    1.33  3.75  25.14  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    1.47  3.67  24.86  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    1.43  3.92  24.86  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.04  2.75  27.57 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.62  3.50  27.63 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.05  2.92  27.62 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.65  3.50  27.63  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.64  3.58  27.63  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    1.01  3.75  27.63 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    1.02  3.75  27.62  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    1.66  3.67  27.62  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    1.46  4.08  27.62  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.38  3.25  21.98 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
```

```
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    1.72  3.75  24.38  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    3.12  4.00  25.78  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    3.08  4.08  25.78  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    0.73  3.92  22.06 0.40   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    3.80  4.08  25.00  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    3.71  4.25  25.00  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.05  2.75  36.87 0.66   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    3.73  4.25  25.07  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.10  2.75  27.82 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.31  3.17  24.58 0.44   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.06  2.75  53.84 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.20  3.33  53.80  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.50  2.75  49.95 0.90   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.36  2.75  49.95  n/a   0.000
```

```
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.07  2.75  40.22 0.72   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.34  3.25  24.97  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.37  3.17  26.13  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.57  3.25  38.36  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    1.89  2.75  42.98  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.36  4.67  42.94  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.48  3.08  27.62 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.01  2.92  27.60 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.48  3.08  27.62  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.11  2.92  27.62 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.46  3.33  27.63 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.14  2.75  39.81 0.71   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.51  3.25  28.97  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.59  3.25  28.81  n/a   0.000
```

```
*
**********************************
** SIMULATION:6. 10 Year 12 Hour **
**********************************
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.06  5.25  26.98 0.43   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    1.03  5.58  27.17 0.43   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.02  5.33  27.08 0.43   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    1.05  5.58  27.17  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    1.08  5.58  27.16  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    1.19  6.08  30.07 0.48   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.16  5.50  27.09 0.43   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.16  5.33  38.68 0.62   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    1.28  6.00  30.66  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    1.40  5.92  30.34  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    1.38  6.17  30.34  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.03  5.25  33.44 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.58  5.75  33.50 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.05  5.33  33.49 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.61  5.67  33.50  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.60  5.83  33.50  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    0.96  6.00  33.50 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    0.97  6.00  33.50  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    1.56  5.92  33.50  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    1.39  6.33  33.50  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.35  5.50  27.09 0.43   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    1.64  6.00  29.79  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    3.00  6.25  31.40  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    2.97  6.42  31.40  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    0.70  6.17  27.17 0.43   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    3.66  6.33  30.51  n/a   0.000
```

```
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    3.59  6.58  30.51  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.04  5.25  42.98 0.69   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    3.61  6.58  30.58  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.06  5.25  33.45 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.28  5.50  30.07 0.48   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.60  5.25  60.84 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.19  5.33  60.80  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    0.85  5.25  56.72 0.90   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.84  5.25  56.71  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.05  5.25  46.38 0.74   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.31  5.25  30.48  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.36  5.25  31.68  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.55  5.25  44.55  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    1.39  5.25  49.40  n/a   0.000
*
```

```
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.37  7.42  49.36  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.43  5.42  33.50 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.01  5.25  33.48 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.43  5.42  33.50  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.09  5.33  33.49 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.43  5.58  33.50 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.09  5.25  46.12 0.74   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.47  5.50  34.89  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.55  5.42  34.73  n/a   0.000
*
*********************************
** SIMULATION:7. 25 Year 6 Hour **
*********************************
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.10  2.83  29.04 0.44   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB NASHYD         0101  1  5.0   34.60    1.49  3.33  29.34 0.45   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.04  2.83  29.15 0.44   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    1.51  3.33  29.33  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    1.55  3.33  29.32  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    1.66  3.83  32.38 0.49   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.24  3.17  29.26 0.45   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.28  2.83  41.12 0.63   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    1.76  3.75  32.98  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    1.94  3.67  32.65  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    1.90  3.83  32.65  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.05  2.75  35.89 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.82  3.50  35.96 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                 15.0
```

```
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.07  2.92  35.95 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.86  3.42  35.96  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.84  3.58  35.96  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    1.33  3.67  35.96 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    1.34  3.67  35.96  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    2.18  3.67  35.96  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    1.96  4.00  35.96  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.52  3.25  29.26 0.45   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    2.29  3.75  32.08  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    4.19  3.92  33.76  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    4.14  4.00  33.76  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    0.98  3.83  29.34 0.45   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    5.11  4.00  32.83  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    4.98  4.17  32.83  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.07  2.75  45.53 0.69   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    5.00  4.17  32.90  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.13  2.75  35.80 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.41  3.17  32.38 0.49   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.25  2.75  63.72 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.24  3.33  63.67  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.79  2.75  59.50 0.91   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.62  2.75  59.50  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.09  2.75  48.94 0.75   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.45  3.17  32.79  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.49  3.17  34.02  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.72  3.17  47.13  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    2.30  2.75  52.06  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.45  4.58  52.01  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.63  3.08  35.96 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB NASHYD         0111  1  5.0    0.10    0.01  2.83  35.94 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.64  3.08  35.96  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.14  2.92  35.95 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.61  3.33  35.96 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.18  2.75  48.75 0.74   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.67  3.25  37.37  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.77  3.17  37.20  n/a   0.000
*
**********************************
** SIMULATION:8. 25 Year 12 Hour **
**********************************
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.07  5.25  34.59 0.47   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    1.35  5.58  35.14 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.03  5.25  34.71 0.47   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    1.37  5.58  35.14  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    1.41  5.58  35.12  n/a   0.000
```

```
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    1.54  6.08  38.55 0.53   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.21  5.42  35.06 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.20  5.33  47.60 0.65   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    1.65  6.00  39.17  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    1.82  5.92  38.80  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    1.78  6.08  38.80  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.03  5.25  42.41 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.74  5.67  42.49 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.06  5.33  42.48 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    0.78  5.67  42.49  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    0.77  5.83  42.49  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB NASHYD         0104  1  5.0   32.00    1.23  5.92  42.49 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    1.24  5.92  42.49  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    2.00  5.92  42.49  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    1.82  6.25  42.49  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.46  5.50  35.07 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    2.14  5.92  38.17  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    3.91  6.17  40.04  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    3.88  6.33  40.04  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    0.91  6.08  35.15 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    4.78  6.25  39.01  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    4.68  6.50  39.01  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.05  5.25  52.23 0.71   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    4.71  6.50  39.09  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.07  5.25  42.04 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.37  5.50  38.55 0.53   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
```

```
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.70  5.25  71.21 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.23  5.33  71.17  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.00  5.25  66.78 0.91   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.99  5.25  66.78  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.06  5.25  55.68 0.76   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.41  5.25  38.97  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.46  5.25  40.24  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.68  5.25  53.91  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    1.67  5.25  59.04  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.46  7.33  58.99  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.55  5.42  42.49 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.01  5.25  42.47 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.55  5.42  42.49  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.11  5.33  42.48 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.54  5.58  42.49 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.11  5.25  55.64 0.76   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.60  5.50  43.94  n/a   0.000
*
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.70  5.42  43.77  n/a   0.000
*
**********
** SIMULATION:9. 50 Year 6 Hour **
**********
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.12  2.83  34.52 0.47   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0101  1  5.0   34.60    1.79  3.33  35.07 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.05  2.83  34.63 0.47   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    1.81  3.33  35.06  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    1.86  3.33  35.04  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0102  1  5.0   46.70    1.98  3.75  38.47 0.53   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.29  3.17  34.99 0.48   0.000
    [CN=82.0         ]
```

```
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.35  2.83  47.51 0.65   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7655  3  5.0   50.10    2.09  3.75  39.08  n/a   0.000
*
    ADD [  7655+  0004]  7655  1  5.0   55.00    2.30  3.67  38.72  n/a   0.000
*
    CHANNEL[ 2:  7655]   7658  1  5.0   55.00    2.26  3.83  38.72  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.06  2.75  42.32 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0103  1  5.0   17.00    0.96  3.42  42.40 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.75]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.08  2.92  42.39 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    ADD [  0103+  0005]  7661  3  5.0   17.90    1.02  3.42  42.40  n/a   0.000
*
    CHANNEL[ 2:  7661]   7651  1  5.0   17.90    1.00  3.58  42.40  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0104  1  5.0   32.00    1.57  3.67  42.40 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.93]
*
    ADD [  0104+  0006]  7644  3  5.0   32.50    1.59  3.67  42.40  n/a   0.000
*
    ADD [  7644+  7651]  7644  1  5.0   50.40    2.57  3.58  42.40  n/a   0.000
*
    CHANNEL[ 2:  7644]   7660  1  5.0   50.40    2.37  3.92  42.40  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0105  1  5.0   11.10    0.62  3.25  34.99 0.48   0.000
    [CN=82.0         ]
```

```
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7656  3  5.0   66.10    2.74  3.67  38.09  n/a   0.000
*
    ADD [  7656+  7660]  7656  1  5.0  116.50    5.05  3.83  39.96  n/a   0.000
*
    CHANNEL[ 2:  7656]   7649  1  5.0  116.50    5.00  4.00  39.96  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0106  1  5.0   31.00    1.18  3.83  35.07 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7659  3  5.0  147.50    6.16  3.92  38.93  n/a   0.000
*
    CHANNEL[ 2:  7659]   7648  1  5.0  147.50    6.02  4.17  38.93  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.08  2.75  52.15 0.71   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  7648+  0008]  7639  3  5.0  148.40    6.05  4.17  39.01  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.15  2.75  41.96 0.57   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.49  3.17  38.47 0.53   0.000
    [CN=85.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.40  2.75  71.11 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.27  3.33  71.07  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    2.00  2.75  66.68 0.91   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
```

```
    OUTFLOW:             7675  1  5.0   11.24    1.81  2.75  66.68  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.10  2.75  55.59 0.76   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0109+  7667]  7671  3  5.0    8.75    0.54  3.17  38.89  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    9.47    0.58  3.17  40.16  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0   16.97    0.84  3.17  53.82  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   28.21    2.61  2.75  58.94  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   28.21    0.53  4.50  58.90  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0110  1  5.0    9.70    0.75  3.08  42.40 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.46]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.01  2.83  42.38 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    0.75  3.08  42.40  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.16  2.92  42.39 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0108  1  5.0   11.30    0.72  3.33  42.40 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\13f88c8e-7b54-436b-90b2-86b02434588c\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.21  2.75  55.55 0.76   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7681  3  5.0   12.70    0.79  3.25  43.85  n/a   0.000
*
```

```
    ADD [  0107+  7681]  7678  3  5.0   14.40    0.91  3.17  43.68  n/a   0.000
*
```

```
*******************************
** SIMULATION:Regional        **
*******************************
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0101  1  5.0   34.60    4.12 10.50 181.73 0.86   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.19 10.00 182.47 0.86   0.000
    [CN=90.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.08 10.00 182.77 0.86   0.000
    [CN=90.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0001+  0101]  7684  3  5.0   35.20    4.18 10.50 181.75  n/a   0.000
*
    ADD [  7684+  0002]  7684  1  5.0   36.50    4.33 10.42 181.77  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.13 10.08 188.93 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0103  1  5.0   17.00    1.96 10.75 188.98 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.75]
*
    ADD [  0103+  0005]  7714  3  5.0   17.90    2.06 10.67 188.98  n/a   0.000
*
    CHANNEL[ 2:  7714]   7651  1  5.0   17.90    2.05 10.83 188.98  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0104  1  5.0   32.00    3.50 11.08 188.98 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.93]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
```

```
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.07 10.00 188.62 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.20]
*
    ADD [  0104+  0006]  7666  3  5.0   32.50    3.55 11.08 188.97  n/a   0.000
*
    ADD [  7666+  7651]  7666  1  5.0   50.40    5.59 11.00 188.98  n/a   0.000
*
    CHANNEL[ 2:  7666]   7660  1  5.0   50.40    5.55 11.17 188.97  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0102  1  5.0   46.70    5.00 11.08 186.52 0.88   0.000
    [CN=93.0         ]
    [ N = 3.0:Tp 0.99]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.62 10.25 181.62 0.86   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0003  1  5.0    3.40    0.46 10.00 193.79 0.91   0.000
    [I%=22.0:S%= 2.00]
*
    ADD [  0102+  0003]  7674  3  5.0   50.10    5.35 11.08 187.01  n/a   0.000
*
    ADD [  7674+  0004]  7674  1  5.0   55.00    5.89 11.00 186.53  n/a   0.000
*
    CHANNEL[ 2:  7674]   7658  1  5.0   55.00    5.86 11.08 186.53  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0105  1  5.0   11.10    1.37 10.33 181.63 0.86   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.55]
*
    ADD [  0105+  7658]  7681  3  5.0   66.10    7.08 11.08 185.71  n/a   0.000
*
    ADD [  7681+  7660]  7681  1  5.0  116.50   12.64 11.08 187.12  n/a   0.000
*
    CHANNEL[ 2:  7681]   7649  1  5.0  116.50   12.61 11.17 187.12  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0106  1  5.0   31.00    3.27 11.17 181.73 0.86   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 1.01]
*
    ADD [  0106+  7649]  7685  3  5.0  147.50   15.88 11.17 185.99  n/a   0.000
*
```

```
    CHANNEL[ 2:  7685]  76488  1  5.0  147.50   15.90 11.17 185.99  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.11 10.00 197.14 0.93   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [ 76488+  0008]  7639  3  5.0  148.40   15.98 11.17 186.06  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0109  1  5.0    7.70    0.98 10.25 186.51 0.88   0.000
    [CN=93.0         ]
    [ N = 3.0:Tp 0.52]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         7688  1  5.0    1.05    0.15 10.00 181.43 0.86   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       7716  1  5.0   11.24    1.65 10.00 207.00 0.98   0.000
    [I%=85.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       7689  1  5.0    0.72    0.10 10.00 198.99 0.94   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       7690  1  5.0    7.50    1.10 10.00 210.20 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0109+  7688]  7687  3  5.0    8.75    1.08 10.25 185.90  n/a   0.000
*
    ADD [  7687+  7689]  7687  1  5.0    9.47    1.16 10.17 186.90  n/a   0.000
*
    ADD [  7687+  7690]  7687  3  5.0   16.97    2.27 10.00 197.20  n/a   0.000
*
    ADD [  7687+  7716]  7687  1  5.0   28.21    3.92 10.00 201.10  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0110  1  5.0    9.70    1.27 10.17 188.97 0.89   0.000
    [CN=94.0         ]
```

```
    [ N = 3.0:Tp 0.46]
*
    READ STORM                60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0111  1  5.0    0.10    0.01 10.00 188.89 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.29]
*
    ADD [  0110+  0111]  7683  3  5.0    9.80    1.29 10.17 188.97  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0108  1  5.0   11.30    1.36 10.50 188.98 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.63]
*
    READ STORM                60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.20 10.00 200.19 0.94   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0108+  0007]  7699  3  5.0   12.70    1.52 10.42 190.21  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\0633789a-fa07-4e60-a4ca-c174c93f4b76\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0107  1  5.0    1.70    0.24 10.00 188.92 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.31]
*
    ADD [  0107+  7699]  7678  3  5.0   14.40    1.73 10.33 190.06  n/a   0.000
*
```

Summary of Pre-Development Peak Flow VO Results

Pre-Development Peak Runoff Directed to the West Tributary (6-Hour)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)			
	101	EXT1	EXT2	Total
2-year	0.455	0.013	0.034	**0.477**
5-year	0.826	0.023	0.057	**0.863**
10-year	1.104	0.03	0.075	**1.157**
25-year	1.485	0.04	0.099	**1.553**
50-year	1.786	0.047	0.117	**1.864**
100-year	2.092	0.055	0.136	**2.182**
Regional	4.116	0.084	0.185	**4.327**

Pre-Development Peak Runoff Directed to the West Tributary (12-Hour)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)			
	101	EXT1	EXT2	Total
2-year	0.471	0.012	0.028	**0.492**
5-year	0.791	0.019	0.044	**0.829**
10-year	1.029	0.024	0.056	**1.078**
25-year	1.346	0.031	0.071	**1.407**
50-year	1.59	0.036	0.083	**1.661**
100-year	1.841	0.041	0.095	**1.925**

External Pre-Development Peak Runoff Directed to the East Tributary (6-Hour Storm)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)					
	EXT3	EXT4	EXT5	EXT6	EXT8	Total
2-year	0.105	0.073	0.023	0.017	0.030	**0.248**
5-year	0.174	0.133	0.041	0.029	0.043	**0.420**
10-year	0.219	0.178	0.054	0.038	0.053	**0.542**
25-year	0.282	0.240	0.071	0.050	0.068	**0.711**
50-year	0.349	0.289	0.084	0.059	0.078	**0.859**
100-year	0.402	0.339	0.098	0.068	0.092	**0.999**
Regional	0.464	0.621	0.126	0.073	0.112	**1.396**

External Pre-Development Peak Runoff Directed to the East Tributary (12-Hour Storm)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)					
	EXT3	EXT4	EXT5	EXT6	EXT8	Total
2-year	0.085	0.075	0.023	0.014	0.021	**0.218**
5-year	0.130	0.127	0.036	0.022	0.031	**0.346**
10-year	0.161	0.164	0.045	0.028	0.039	**0.437**
25-year	0.202	0.214	0.057	0.035	0.048	**0.556**
50-year	0.237	0.253	0.066	0.040	0.057	**0.653**
100-year	0.270	0.292	0.075	0.045	0.064	**0.746**

Internal Pre-Development Peak Runoff Directed to the East Tributary (6-Hour)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)						
	102	**103**	**104**	**105**	**106**	**Total Site**	**Total[1]**
2-year	0.536	0.273	0.448	0.157	0.306	**1.720**	**1.578**
5-year	0.947	0.474	0.775	0.285	0.549	**3.030**	**2.801**
10-year	1.253	0.622	1.014	0.383	0.732	**4.004**	**3.727**
25-year	1.661	0.815	1.327	0.515	0.980	**5.298**	**5.003**
50-year	1.979	0.965	1.572	0.619	1.176	**6.311**	**6.050**
100-year	2.305	1.117	1.818	0.725	1.375	**7.340**	**7.147**
Regional	5.001	1.958	3.501	1.371	3.270	**15.101**	**15.979**

1. Total internal and external flows directed to the east tributary.

Internal Pre-Development Peak Runoff Directed to the East Tributary (12-Hour)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)						
	102	**103**	**104**	**105**	**106**	**Total Site**	**Total[1]**
2-year	0.562	0.280	0.465	0.162	0.322	**1.791**	**0.652**
5-year	0.926	0.455	0.752	0.272	0.539	**2.944**	**2.790**
10-year	1.193	0.580	0.958	0.355	0.699	**3.785**	**3.612**
25-year	1.544	0.741	1.227	0.463	0.914	**4.889**	**4.707**
50-year	1.814	0.865	1.431	0.547	1.080	**5.737**	**5.588**
100-year	2.091	0.990	1.638	0.633	1.251	**6.603**	**6.508**

1. Total internal and external flows directed to the east tributary.

Pre-Development Peak Runoff Directed to Airport Road & Salt Creek (6-Hour)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)							
	107	**108**	**EXT7**	**Total to Airport Road/ Salt Creek**	**110**	**111**	**Total to Salt Creek**	**Total Site to Salt Creek[1]**
2-year	0.045	0.202	0.081	**0.263**	0.206	0.003	**0.209**	**0.472**
5-year	0.081	0.352	0.118	**0.453**	0.363	0.005	**0.367**	**0.820**
10-year	0.106	0.462	0.145	**0.589**	0.478	0.006	**0.484**	**1.073**
25-year	0.139	0.606	0.179	**0.768**	0.630	0.008	**0.637**	**1.405**
50-year	0.164	0.718	0.205	**0.907**	0.747	0.010	**0.755**	**1.662**
100-year	0.190	0.830	0.238	**1.043**	0.864	0.012	**0.873**	**1.916**
Regional	0.240	1.363	0.204	**1.726**	1.274	0.014	**1.287**	**3.013**

1. Total Site to Salt Creek is the Total to Airport Road/Salt Creek + Total to Salt Creek

Pre-Development Peak Runoff Directed to Airport Road & Salt Creek (12-Hour)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)							
	107	108	EXT7	Total to Airport Road/ Salt Creek	110	111	Total to Salt Creek	Total Site to Salt Creek[1]
2-year	0.044	0.207	0.054	**0.270**	0.210	0.003	**0.213**	**0.483**
5-year	0.069	0.335	0.075	**0.434**	0.339	0.004	**0.343**	**0.777**
10-year	0.086	0.427	0.091	**0.547**	0.430	0.005	**0.435**	**0.982**
25-year	0.109	0.545	0.110	**0.698**	0.546	0.007	**0.552**	**1.250**
50-year	0.126	0.634	0.124	**0.811**	0.634	0.008	**0.641**	**1.452**
100-year	0.143	0.724	0.138	**0.926**	0.722	0.009	**0.730**	**1.656**

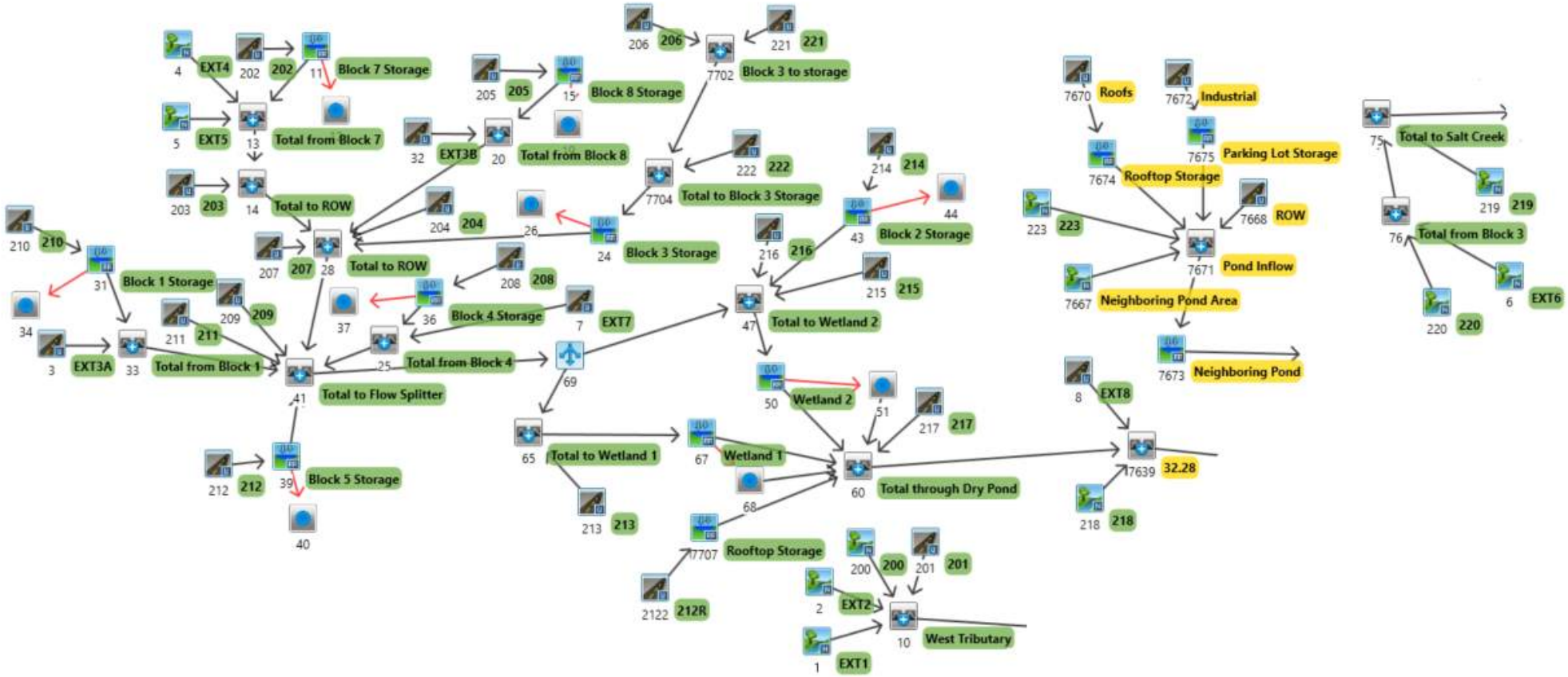
1. Total Site to Salt Creek is the Total to Airport Road/Salt Creek + Total to Salt Creek

Internal Pre-Development Peak Runoff Directed to South Neighboring Property (6-Hour Storm)

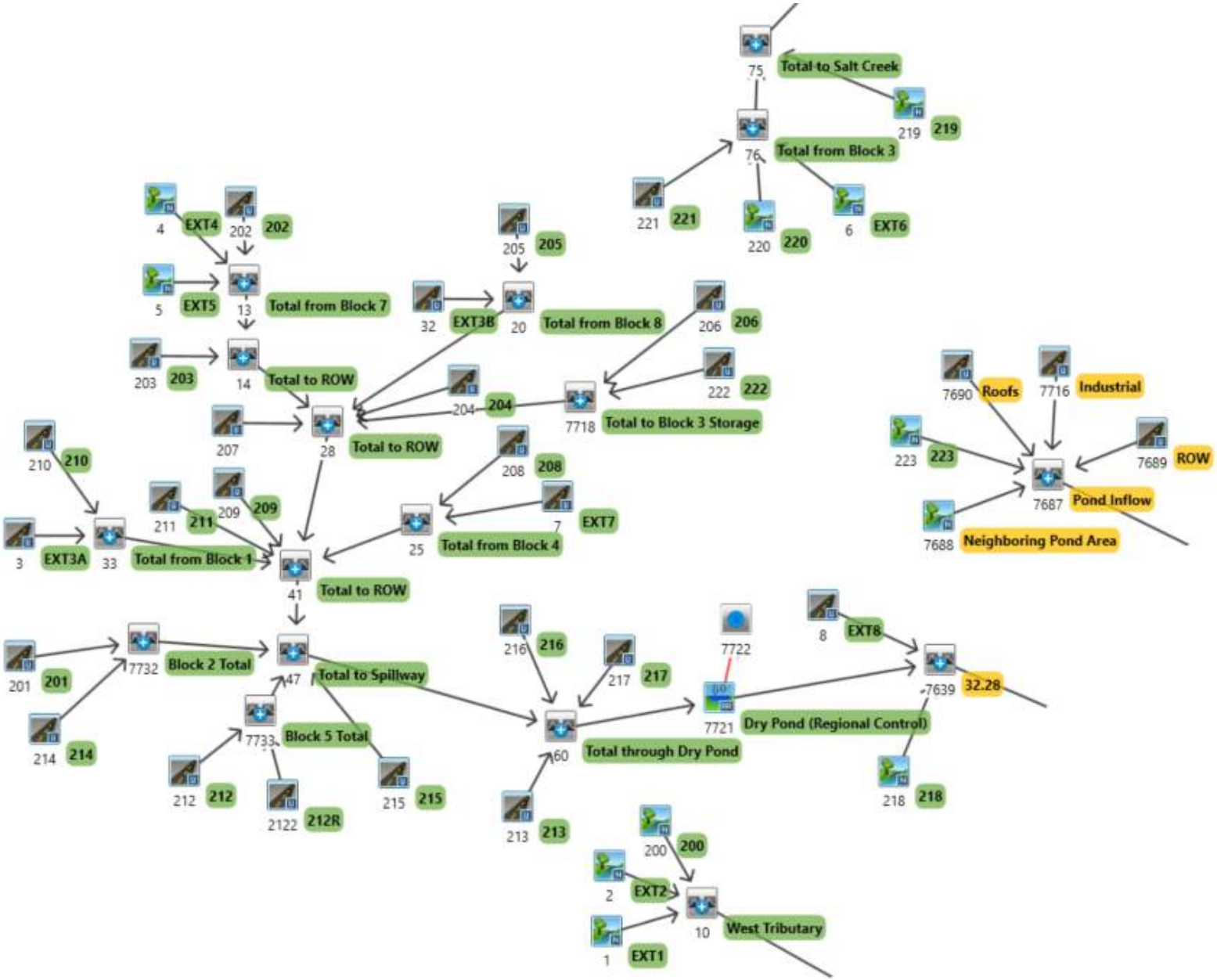
Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)
	109
2-year	0.130
5-year	0.233
10-year	0.309
25-year	0.413
50-year	0.493
100-year	0.575
Regional	0.975

Internal Pre-Development Peak Runoff Directed to South Neighboring Property (12-Hour Storm)

Design Storm Event	Pre-Development Uncontrolled Flow Rate (m^3/s)
	109
2-year	0.134
5-year	0.222
10-year	0.285
25-year	0.367
50-year	0.430
100-year	0.494



VO PROPOSED MODEL SCHEMATIC (2-YEAR TO 100-YEAR STORM)
DATE: 2024-02-23
BY: IF
CHECK: RA



VO PROPOSED MODEL SCHEMATIC (REGIONAL STORM)
DATE: 2024-02-23
BY: IF
CHECK: RA

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**200**
Catchment AREA (ha)	**28.2**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment 200

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	28.2
				0
Total Area Check				28.2

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveway		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL		79				79					0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL									28.2	79	28.2

CN Calculations		
	Total Area	28.2
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	28.20	0.25	0.25
Impervious	0.00	0.90	0.00
Gravel	0.00	0.60	0.00
Total Subcatchment	**28.2**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	28.2	(Meadow)
Impervious	1	0.00	
Total	8.0	28.2	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
813	22	2.71%	2.3	0.38	0.60	0.36	0.36	0.45	0.30	0.95	0.64

Appropriate calculated time to peak:	0.64	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**201**
Catchment AREA (ha)	**1.39**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 201

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	1.4
				0
Total Area Check				1.39

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL		84		84			1.4	79			1.39

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL											0.00

CN Calculations		
	Total Area	1.39
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Building	1.39	0.90	0.90
Total Subcatchment	**1.39**	**-**	**0.90**

TIMP	**0.99**
XIMP	**0.99**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.0
Impervious	1	1.4
Total	1.0	1.4

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	0.5	AUTO	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**EXT1**
Catchment AREA (ha)	**0.6**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment EXT1

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	0.6
				0
Total Area Check				0.6

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.10				0.00						0.10

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL							0.5	79			0.5

CN Calculations		
	Total Area	0.6
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
Pervious	0.50	0.25	0.21
Impervious	0.10	0.90	0.15
Total Subcatchment	**0.6**	**-**	**0.36**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	5	0.5	(Lawn)
Impervious	1	0.10	
Total	4.3	0.6	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
107	1	0.93%	2.3	0.22	0.13	0.08	0.08	0.11	0.07	0.43	0.29

Appropriate calculated time to peak:	0.29	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**EXT2**
Catchment AREA (ha)	**1.3**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment EXT2

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	1.3
				0
Total Area Check				1.3

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.20				0.00						0.20

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL							1.1	79			1.1

CN Calculations	Total Area	1.3
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	1.10	0.25	0.21
Impervious	0.20	0.90	0.14
Total Subcatchment	**1.3**	**-**	**0.35**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	5	1.1	(Lawn)
Impervious	1	0.20	
Total	4.4	1.3	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
184	11	5.98%	2.3	0.56	0.09	0.05	0.05	0.12	0.08	0.31	0.21

Appropriate calculated time to peak:	0.21	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **202**
Catchment AREA (ha) **18.1**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 202

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	55	9.96
Chinguacousy Clay Loam	CCL	C	45	8.15
Total Area Check				18.10

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	9.96	84						98			9.96
CCL	8.15	79									8.15
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	18.1
	Composite Curve Number	82

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Industrial Land**	18.1	0.84	0.84
Total Subcatchment	**18.1**	**-**	**0.84**

*Minimum landscape requirement for industrial blocks is 10%

TIMP	**0.91**
XIMP	**0.71**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	1.8
Impervious	1	16.3
Total	1.4	18.1

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	862	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**EXT4**
Catchment AREA (ha)	**4.9**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment EXT4

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	4.9
				0
Total Area Check				4.9

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL		79			0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL			4.9	79				79			4.9

CN Calculations		
	Total Area	4.9
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	4.90	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**4.9**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	4.9	(Meadow)
Impervious	1	0.00	
Total	8.0	4.9	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
180	1	0.56%	2.3	0.17	0.29	0.17	0.17	0.16	0.11	0.75	0.50

Appropriate calculated time to peak:	0.50	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**EXT5**
Catchment AREA (ha)	**0.9**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment EXT5

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	0.9
				0
Total Area Check				0.9

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			0.9	84							0.9

CN Calculations	Total Area	0.9
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.90	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**0.9**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	0.9	(Meadow)
Impervious	1	0.00	
Total	8.0	0.9	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
103	0.85	0.83%	2.3	0.21	0.14	0.08	0.08	0.10	0.07	0.50	0.33

Appropriate calculated time to peak:	0.33	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**203**
Catchment AREA (ha)	**0.8**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 203

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	0.80
				0
Total Area Check				0.80

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			0.8	84							0.80

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	0.80
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Roadway**	0.8	0.72	0.72
Total Subcatchment	**0.8**	**-**	**0.72**

*Minimum 27% landscaping for typical 26.0 m right-of-way section for George Bolton Parkway

TIMP	**0.75**
XIMP	**0.55**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.22
Impervious	2	0.58
Total	2.8	0.80

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	1.37	287	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**204**
Catchment AREA (ha)	**1.7**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 204

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	62	1.05
Chinguacousy Clay Loam	CCL	C	38	0.65
Total Area Check				1.70

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC		98	1.05	84				98			1.05
CCL		98	0.65	79							0.65
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	1.7
	Composite Curve Number	82

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
*Roadway**	1.7	0.72	0.72
Total Subcatchment	**1.7**	**-**	**0.72**

*Minimum 27% landscaping for typical 26.0 m right-of-way section for George Bolton Parkway

TIMP	**0.75**
XIMP	**0.55**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.5
Impervious	2	1.2
Total	2.8	1.7

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	0.85	547	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **205**
Catchment AREA (ha) **17.3**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 205

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	84	14.53
Chinguacousy Clay Loam	CCL	C	16	2.77
Total Area Check				17.30

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	14.53	84						98			14.53
CCL	2.77	79									2.77
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	17.3
	Composite Curve Number	83

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Industrial Land**	17.3	0.84	0.84
Total Subcatchment	**17.3**	**-**	**0.84**

*Minimum landscape requirement for industrial blocks is 10%

TIMP	**0.91**
XIMP	**0.71**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	1.7
Impervious	1	15.6
Total	1.4	17.3

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	796	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**EXTB**
Catchment AREA (ha)	**2.0**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment EXT3B

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	2.0
				0
Total Area Check				2.0

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Area		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.80	79				79					0.80
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL			0.34	79			0.86	79			1.20

CN Calculations		
	Total Area	2.00
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	1.20	0.25	0.15
Impervious	0.80	0.90	0.36
Total Subcatchment	**2.0**	**-**	**0.51**

TIMP	**0.44**
XIMP	**0.24**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Meadow	8	0.34
Pervious	5	0.86
Impervious	2	0.80
Total	4.3	2.00

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.9	-	-	0.25
Impervious	2.0	0.7	607	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**206**
Catchment AREA (ha)	**6.0**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 206

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	6.00
Chinguacousy Clay Loam	CCL	C		
Total Area Check				6.00

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	6.00	84						98			6.00
CCL	0.00	79									0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	6.0
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Industrial Land**	6.0	0.70	0.70
Total Subcatchment	**6.0**	**-**	**0.70**

TIMP	**0.72**
XIMP	**0.52**

*Minimum landscape requirement for industrial blocks is 10% determined using the total area for Block 3 (18.1 ha)

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	1.8
Impervious	1	4.2
Total	2.2	6.0

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	478	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **EXT7**
Catchment AREA (ha) **1.4**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment EXT7

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	1.4
				0
Total Area Check				1.4

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Area		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC		98			1.40	84					1.40
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC								84			0.00
					CN Calculations		Total Area				1.40
							Composite Curve Number				84

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
Pervious	0.00	0.25	0.00
Gravel	1.40	0.60	0.60
Total Subcatchment	**1.4**	**-**	**0.60**

TIMP	**0.57**
XIMP	**0.37**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.00
Gravel	2.5	1.40
Impervious	2	0.00
Total	2.5	1.40

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	1.2	74	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**207**
Catchment AREA (ha)	**1.8**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 207

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	1.80
Chinguacousy Clay Loam	CCL	C	0	0
Total Area Check				1.80

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			1.80	84				98			1.80
CCL			0	79							0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	1.8
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Roadway**	1.8	0.72	0.72
Total Subcatchment	**1.8**	**-**	**0.72**

*Minimum 27% landscaping for typical 26.0 m right-of-way section for George Bolton Parkway

TIMP	**0.75**
XIMP	**0.55**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.5
Impervious	2	1.3
Total	2.8	1.8

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	1	694	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**208**
Catchment AREA (ha)	**19.2**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 208

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	19.2
Chinguacousy Clay Loam	CCL	C	0	0
Total Area Check				19.2

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	19.2	84						98			19.20
CCL	0.00	79									0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	19.2
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Industrial Land**	19.2	0.84	0.84
Total Subcatchment	**19.2**	**-**	**0.84**

*Minimum landscape requirement for industrial blocks is 10%

TIMP	**0.91**
XIMP	**0.71**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	1.9
Impervious	1	17.3
Total	1.4	19.2

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	1031	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **209**
Catchment AREA (ha) **1.8**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 209

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	1.8
Chinguacousy Clay Loam	CCL	C	0	0
Total Area Check				1.8

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			1.8	84				98			1.80
CCL			0	79							0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	1.8
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Roadway**	1.8	0.72	0.72
Total Subcatchment	**1.8**	**-**	**0.72**

*Minimum 27% landscaping for typical 26.0 m right-of-way section for George Bolton Parkway

TIMP	**0.75**
XIMP	**0.55**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.5
Impervious	2	1.3
Total	2.8	1.8

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	0.75	662	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **210**
Catchment AREA (ha) **37.6**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 210

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	78	29.33
Peel Clay	PC	D	22	8.27
Total Area Check				37.60

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	29.33	79						98			29.33
PC	8.27	84									8.27
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL											0.00

CN Calculations		
	Total Area	37.6
	Composite Curve Number	80

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Industrial Land**	37.6	0.84	0.84
Total Subcatchment	**37.6**	**-**	**0.84**

*Minimum landscape requirement for industrial blocks is 10%

TIMP	**0.91**
XIMP	**0.71**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	3.8
Impervious	1	33.8
Total	1.4	37.6

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	1060	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**EXT3A**
Catchment AREA (ha)	**1.4**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment EXT3A

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	1.4
				0
Total Area Check				1.4

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Area		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.47	79				79					0.47
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL				79			0.93	79			0.93

CN Calculations		
	Total Area	1.40
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.93	0.25	0.17
Impervious	0.47	0.90	0.30
Total Subcatchment	**1.4**	**-**	**0.47**

TIMP	**0.38**
XIMP	**0.18**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Meadow	8	0.00
Pervious	5	0.93
Impervious	2	0.47
Total	4.0	1.40

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	1	153	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**211**
Catchment AREA (ha)	**0.9**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 211

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	45	0.41
Chinguacousy Clay Loam	CCL	C	55	0.495
Total Area Check				0.90

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			0.41	84				98		79	0.41
CCL			0.50	79							0.50
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	0.9
	Composite Curve Number	81

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Roadway**	0.9	0.72	0.72
Total Subcatchment	**0.9**	**-**	**0.72**

TIMP	**0.75**
XIMP	**0.55**

*Minimum 27% landscaping for typical 26.0 m right-of-way section for George Bolton Parkway

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.2
Impervious	2	0.7
Total	2.8	0.9

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	0.7	324	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **212**
Catchment AREA (ha) **8.09**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 212

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	86	6.96
Chinguacousy Clay Loam	CCL	C	14	1.1326
Total Area Check				8.09

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	6.96	84						98			6.96
CCL	1.13	79									1.13
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	8.1
	Composite Curve Number	83

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Industrial Land**	8.1	0.84	0.84
Total Subcatchment	**8.1**	**-**	**0.84**

*Minimum landscape requirement for industrial blocks is 10%

TIMP	**0.91**
XIMP	**0.71**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.8
Impervious	1	7.3
Total	1.4	8.1

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	996	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**212R**
Catchment AREA (ha)	**9.06**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 212R

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	9.06
Chinguacousy Clay Loam	CCL	C	0	0
Total Area Check				9.06

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	9.06	84						98			9.06
CCL	0.00	79									0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	9.1
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Building	9.1	0.90	0.90
Total Subcatchment	**9.1**	**-**	**0.90**

TIMP	**0.99**
XIMP	**0.99**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.0
Impervious	1	9.1
Total	1.0	9.1

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	0.5	AUTO	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **213**
Catchment AREA (ha) **3.7**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 213 (Wetland 1)

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	0	0.00
Chinguacousy Clay Loam	CCL	C	100	3.7
Total Area Check				3.70

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC								98	3.70	79	3.70
											0

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	3.70
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
SWM Facility	3.7	0.50	0.50
Total Subcatchment	**3.7**	**-**	**0.50**

TIMP	**0.50**
XIMP	**0.50**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	1.9
Impervious	1	1.9
Total	3.0	3.7

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	2	190	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**214**
Catchment AREA (ha)	**8.81**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 214

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	8.81
Total Area Check				8.81

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	8.81	79						98			8.81
											0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL											0.00

CN Calculations		
	Total Area	8.81
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Industrial Land**	8.81	0.84	0.84
Total Subcatchment	**8.81**	**-**	**0.84**

*Minimum landscape requirement for industrial blocks is 10%

TIMP	**0.91**
XIMP	**0.71**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.88
Impervious	1	7.93
Total	1.4	8.81

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	607	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**215**
Catchment AREA (ha)	**1.9**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 215

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	42	0.80
Chinguacousy Clay Loam	CCL	C	58	1.102
Total Area Check				1.90

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			0.80	84				98		79	0.80
CCL			1.10	79							1.10
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	1.9
	Composite Curve Number	81

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Roadway**	1.9	0.72	0.72
Total Subcatchment	**1.9**	**-**	**0.72**

*Minimum 27% landscaping for typical 26.0 m right-of-way section for George Bolton Parkway

TIMP	**0.75**
XIMP	**0.55**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.5
Impervious	2	1.4
Total	2.8	1.9

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	1.3	474	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**216**
Catchment AREA (ha)	**3.7**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 216 (Wetland 2)

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	0	0.00
Chinguacousy Clay Loam	CCL	C	100	3.7
Total Area Check				3.70

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC								98	3.70	79	3.70
											0

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	3.70
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
SWM Facility	3.7	0.50	0.50
Total Subcatchment	**3.7**	**-**	**0.50**

TIMP	**0.50**
XIMP	**0.50**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	1.9
Impervious	1	1.9
Total	3.0	3.7

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	2	280	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **217**
Catchment AREA (ha) **9.9**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 217 (Dry Pond - Regional Control)

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	0	0.00
Chinguacousy Clay Loam	CCL	C	100	9.9
Total Area Check				9.90

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC								98	9.90	79	9.90
											0

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	9.90
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
Dry Pond	9.9	0.50	0.50
Total Subcatchment	**9.9**	**-**	**0.50**

TIMP	**0.50**
XIMP	**0.50**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	5.0
Impervious	1	5.0
Total	3.0	9.9

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	472	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**218**
Catchment AREA (ha)	**0.5**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment 218

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	D	100	0.5
				0
Total Area Check				0.5

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.00				0.00						0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL			0.5	79							0.5

CN Calculations		
	Total Area	0.5
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.50	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**0.5**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	0.5	(Meadow)
Impervious	1	0.00	
Total	8.0	0.5	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
105.5	1.1	1.04%	2.3	0.23	0.12	0.07	0.07	0.11	0.07	0.47	0.31

Appropriate calculated time to peak:	0.31	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	EXT8
Catchment AREA (ha)	0.9

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment EXT8

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	0.9
				0
Total Area Check				0.9

Impervious Landuses Present:											
	Roadway/Rooftops		Sidewalk		Gravel Area		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.45	79				79					0.45

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Roadside Ditch		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL							0.45	79			0.45

CN Calculations		
	Total Area	0.90
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
Pervious	0.45	0.25	0.13
Impervious	0.45	0.90	0.45
Total Subcatchment	**0.9**	**-**	**0.58**

TIMP	**0.54**
XIMP	**0.34**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.45
Impervious	2	0.45
Total	3.5	0.90

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2	313	0.25
Impervious	2.0	1	309	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**219**
Catchment AREA (ha)	**7.8**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment 219

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	7.80
				0
Total Area Check				7.8

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveway		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC									7.8	84	7.8

CN Calculations		
	Total Area	7.8
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	7.80	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**7.8**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	7.8	(Meadow)
Impervious	1	0.00	
Total	8.0	7.8	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
380	10	2.63%	2.3	0.37	0.28	0.17	0.17	0.24	0.16	0.65	0.44

Appropriate calculated time to peak:	0.44	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME **220**
Catchment AREA (ha) **1.4**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment 220

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	1.40
				0
Total Area Check				1.4

Impervious Landuses Present:											
	Driveway/Rooftop		Sidewalk		Gravel Driveway		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	1.7	84								84	1.7

CN Calculations		
	Total Area	1.7
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	1.70	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**1.7**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	1.7	(Woodland)
Impervious	1	0.00	
Total	8.0	1.7	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
151	2.5	1.66%	2.3	0.30	0.14	0.09	0.09	0.13	0.08	0.48	0.32

Appropriate calculated time to peak:	0.32	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**EXT6**
Catchment AREA (ha)	**0.5**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment EXT6

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	0.5
				0
Total Area Check				0.5

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC			0.5	84							0.5

CN Calculations	Total Area	0.5
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.50	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**0.5**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	8	0.5	(Meadow)
Impervious	1	0.00	
Total	8.0	0.5	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
79	2	2.53%	2.3	0.37	0.06	0.04	0.04	0.07	0.04	0.30	0.20

Appropriate calculated time to peak:	0.20	Appropriate Method:	Airport

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**221**
Catchment AREA (ha)	**11.8**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 221

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	11.8
				0
Total Area Check				11.80

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC		84		84			11.8	84			11.80

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	11.80
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Building	11.80	0.90	0.90
Total Subcatchment	**11.80**	**-**	**0.90**

TIMP	**0.99**
XIMP	**0.99**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.0
Impervious	1	11.8
Total	1.0	11.8

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	1.0	1	AUTO	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**222**
Catchment AREA (ha)	**0.90**

Hydrologic Parameters: STANDHYD Command
Post-Development Drainage Area: Catchment 222

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Peel Clay	PC	D	100	0.90
Chinguacousy Clay Loam	CCL	C		
Total Area Check				0.90

Impervious Landuses Present:											
	Industrial Land		Roadway		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC	0.90	84						98			0.90
CCL	0.00	79									0.00
Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
PC											0.00

CN Calculations		
	Total Area	0.9
	Composite Curve Number	84

Runoff Coefficient Calculations

Land Use	Area (ha)	C	Weighted Average C
*Block 16**	0.9	0.72	0.72
Total Subcatchment	**0.9**	**-**	**0.72**

*Assumed 27% pervious; easement for future ROW to drain to Block 3 in the interim, over-control provided within Block 3

TIMP	**0.74**
XIMP	**0.54**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)
Pervious	5	0.2
Impervious	2	0.7
Total	2.8	0.9

Flow Length Calculations

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	-	-	0.25
Impervious	2.0	1	327	0.013

Project Name: Tullamore Lands
Project Number: 2022-5842
Date: 2024-02-14
By: IF
Check: RA

Catchment NAME	**223**
Catchment AREA (ha)	**0.55**

Hydrologic Parameters: NASHYD Command
Post-Development Drainage Area: Catchment 223

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Chinguacousy Clay Loam	CCL	C	100	0.55
				0
Total Area Check				0.55

Impervious Landuses Present:											
	Roadway		Sidewalk		Gravel Parking Lot		Building		SWMF		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL	0.00				0.00						0.00

Pervious Landuses Present:											
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotal
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area
CCL							0.55	79			0.6

CN Calculations		
	Total Area	0.55
	Composite Curve Number	79

Runoff Coefficient Calculations

Land Use	**Area** (ha)	**C**	**Weighted Average C**
Pervious	0.55	0.25	0.25
Impervious	0.00	0.90	0.00
Total Subcatchment	**0.6**	**-**	**0.25**

Initial Abstraction Calculations

Landuse	IA (mm)	Area (ha)	
Pervious	5	0.6	(Lawn)
Impervious	1	0.00	
Total	5.0	0.6	

Time to Peak Calculations

Time to Peak Inputs					Uplands			Bransby Williams		Airport	
Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
31	3.27	10.55%	2.3	0.75	0.01	0.01	0.01	0.02	0.01	0.12	0.08

Appropriate calculated time to peak:	0.08	Appropriate Method:	Airport

```
**********************************
** SIMULATION:1. 25mm_4hr_Chicago **
**********************************
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.02  1.92   4.81 0.19   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
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    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.01  2.00   4.86 0.19   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
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    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0200  1  5.0   28.20    0.16  2.58   3.97 0.16   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
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    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.19  1.67  23.81 0.95   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.02  1.92   4.82  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    0.17  2.58   4.03  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    0.20  1.67   4.90  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.03  1.67   6.40 0.26   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
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    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.01  1.67   4.52 0.18   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
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    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.05  1.67  15.06 0.60   0.000
    [I%=50.0:S%= 2.00]
```

```
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
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    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.06  1.67  23.27 0.93   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.09  2.33  23.22  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
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*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.41  1.67  20.93 0.84   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.82  1.75  20.93  n/a   0.000
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.04  1.67   5.75  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.08  1.67   8.64  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.14  1.83  19.78  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    0.96  1.75  20.39  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.07  4.58  20.33  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.03  2.42   3.97 0.16   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.01  2.17   5.60 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    1.20  1.83  20.96 0.84   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.33  2.50  20.95  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    0.37  2.50  17.33  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    0.37  2.50  16.89  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.06  1.67  17.36 0.69   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    0.38  2.42  16.91  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.10  1.75  17.36 0.69   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    1.17  1.83  21.07 0.84   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.32  2.50  21.06  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.05  1.75  10.56 0.42   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.35  2.42  19.97  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.33  1.75  17.34 0.69   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.40  1.67  23.83 0.95   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    1.70  1.67  21.64  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.06  1.67  17.17 0.69   0.000
    [I%=54.0:S%= 2.00]
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    1.76  1.67  21.42  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.35  2.25  21.41  n/a   0.000
*
    READ STORM                10.0
```

```
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.09  1.75  16.82 0.67   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    0.73  2.42  18.25  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    0.76  2.33  18.20  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    0.80  2.33  18.17  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    1.15  2.25  19.08  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.06  1.75  16.66 0.67   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.60  1.75  21.07 0.84   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.15  2.42  21.05  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    1.24  1.83  21.31 0.85   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.35  2.58  21.30  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.08  1.67  14.45 0.58   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    0.37  2.50  20.84  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.10  1.75  17.36 0.69   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    2.34  1.83  20.74 0.83   0.000
```

```
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    0.66  2.58  20.73  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.04  1.67   9.65 0.39   0.000
    [I%=18.0:S%= 2.00]
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    0.68  2.50  20.34  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.15  1.75  17.13  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    0.41  2.33  20.41  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    1.56  2.33  19.43  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    2.22  2.42  19.70  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    2.37  2.42  19.78  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    2.37  2.42  19.78  n/a   0.000
       Outflow           0002  2  5.0   68.29    1.19  2.42  19.78  n/a   0.000
       Outflow           0002  3  5.0   68.29    1.19  2.42  19.78  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    0.67  1.75  20.74 0.83   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.17  2.33  20.72  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.24  1.67  14.39 0.58   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.11  1.75  16.66 0.67   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.34  1.67  15.16  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.39  1.67  18.56  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    1.43  2.33  19.57  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    0.13  7.42  19.54  n/a   0.000
*
    READ STORM                10.0
```

```
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.25  1.67  14.39 0.58   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    1.23  2.33  19.51  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    0.10  7.50  19.44  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.49  1.75  14.40 0.58   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.03  1.67  23.83 0.95   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7707  1  5.0    9.06    0.38  1.58  23.83  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    0.51  1.75  18.99  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    0.51  1.75  18.99  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    0.51  1.75  19.19  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    0.51  1.75  19.19  n/a   0.000
*
    ADD [  0060+  7707]  0060  3  5.0  173.66    0.89  1.75  19.43  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.00  2.08   3.97 0.16   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.04  1.67  12.76 0.51   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    0.90  1.75  19.38  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    0.92  1.75  19.35  n/a   0.000
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 ** CALIB NASHYD         0219  1  5.0    7.80    0.08  2.33   5.60 0.22   0.000
    [CN=88.0         ]
```

```
    [ N = 3.0:Tp 0.44]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 ** CALIB NASHYD         0220  1  5.0    1.40    0.02  2.08   5.60 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    READ STORM                10.0
    [ Ptot= 25.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\bd105498-defd-4c70-b97f-2e
    remark: 25mm_4hr_Chicago
*
 ** CALIB NASHYD         0006  1  5.0    0.50    0.01  1.92   5.59 0.22   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.02  2.08   5.59  n/a   0.000
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.10  2.25   5.60  n/a   0.000
*
*********************************
** SIMULATION:2. 2 Year 6 Hour **
*********************************
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.03  2.83  10.06 0.28   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.01  2.92  10.12 0.28   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    0.36  3.50   9.36 0.26   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.13  2.75  34.75 0.97   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.05  2.83  10.08  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    0.39  3.42   9.41  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    0.41  3.25  10.52  n/a   0.000
*
    READ STORM                15.0
```

```
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.05  2.75  13.23 0.37   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.02  2.75   9.59 0.27   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.04  2.75  23.64 0.66   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.69  2.75  34.21 0.95   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.13  3.33  34.17  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    0.95  2.75  31.20 0.87   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.85  2.75  31.20  n/a   0.000
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.07  2.75  11.98  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.11  2.75  15.60  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.22  2.75  29.78  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    1.08  2.75  30.54  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.14  4.92  30.48  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.07  3.25   9.36 0.26   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.02  3.00  12.51 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    1.27  2.83  31.50 0.87   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.47  3.50  31.49  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    0.54  3.42  26.78  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    0.55  3.42  26.24  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.05  2.75  27.23 0.76   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    0.57  3.33  26.27  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.11  2.83  27.24 0.76   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    1.24  2.75  31.65 0.88   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.45  3.50  31.64  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.06  2.92  18.10 0.50   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.49  3.33  30.24  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.36  2.75  27.07 0.75   0.000
    [I%=52.0:S%= 2.00]
*
```

```
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.07  2.75  34.78 0.97   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    1.43  2.75  32.18  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.06  2.75  27.00 0.75   0.000
    [I%=54.0:S%= 2.00]
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    1.49  2.75  31.93  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.49  3.25  31.92  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.10  2.75  26.43 0.73   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    1.07  3.33  28.01  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    1.11  3.25  27.95  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    1.17  3.25  27.93  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    1.66  3.25  29.05  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.06  2.75  26.18 0.73   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.59  2.75  31.65 0.88   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.21  3.42  31.63  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    1.32  2.83  31.97 0.89   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.49  3.50  31.96  n/a   0.000
*
```

```
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.08  2.75  23.18 0.64   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    0.51  3.50  31.36  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.11  2.83  27.24 0.76   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    2.51  2.83  31.20 0.87   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    0.93  3.50  31.20  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.05  2.75  16.90 0.47   0.000
    [I%=18.0:S%= 2.00]
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    0.95  3.50  30.69  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.16  2.75  26.88  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    0.59  3.25  30.84  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    2.25  3.25  29.52  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    3.17  3.33  29.87  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    3.39  3.33  29.98  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    3.39  3.33  29.98  n/a   0.000
       Outflow           0002  2  5.0   68.29    1.69  3.33  29.98  n/a   0.000
       Outflow           0002  3  5.0   68.29    1.69  3.33  29.98  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    0.66  2.75  31.20 0.87   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.23  3.42  31.19  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.19  2.75  22.58 0.63   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.12  2.75  26.18 0.73   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.31  2.75  23.80  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.47  2.75  28.32  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    2.05  3.25  29.69  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    0.34  7.42  29.64  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.20  2.75  22.58 0.63   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   71.99    1.77  3.25  29.60  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   71.99    0.18  8.25  29.49  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.48  2.75  22.58 0.63   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    0.81  2.75  34.78 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7707  1  5.0    9.06    0.38  2.42  34.78  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    0.51  2.75  28.89  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    0.51  2.75  28.89  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    0.53  2.75  29.15  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    0.53  2.75  29.15  n/a   0.000
*
    ADD [  0060+  7707]  0060  3  5.0  173.66    0.92  2.75  29.44  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.01  2.92   9.36 0.26   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.03  2.75  20.95 0.58   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    0.92  2.75  29.39  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    0.95  2.75  29.34  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0219  1  5.0    7.80    0.17  3.17  12.52 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0220  1  5.0    1.40    0.04  2.92  12.51 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    READ STORM                 15.0
    [ Ptot= 36.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\9d1884a2-86e3-4fd9-90fc-ca
    remark: 2 Year 6 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0006  1  5.0    0.50    0.02  2.83  12.49 0.35   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.05  2.92  12.51  n/a   0.000
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.22  3.08  12.51  n/a   0.000
*
*********************************
** SIMULATION:3. 5 Year 6 Hour  **
*********************************
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.06  2.83  16.96 0.35   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.02  2.92  17.04 0.36   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
```

```
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    0.66  3.42  16.58 0.35   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.17  2.75  46.51 0.97   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.08  2.83  16.99  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    0.70  3.33  16.61  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    0.74  3.25  17.93  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.08  2.75  21.72 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.03  2.75  16.26 0.34   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.06  2.75  33.44 0.70   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.91  2.75  45.98 0.96   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.17  3.33  45.94  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.28  2.75  42.40 0.89   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
```

```
    OUTFLOW:             7675  1  5.0   11.24    1.15  2.75  42.40  n/a   0.000
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.11  2.75  19.85  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.17  2.75  24.07  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.33  2.75  40.77  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    1.48  2.75  41.64  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.23  4.67  41.59  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.13  3.25  16.58 0.35   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.04  2.92  21.28 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    1.78  2.75  43.00 0.90   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.64  3.42  42.99  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    0.77  3.33  37.36  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    0.80  3.33  36.76  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.08  2.75  38.23 0.80   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    0.83  3.25  36.81  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.16  2.75  38.24 0.80   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB STANDHYD       0205  1  5.0   17.30    1.76  2.75  43.18 0.90   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.62  3.42  43.17  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.11  2.83  27.13 0.57   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.69  3.25  41.51  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.53  2.75  37.96 0.79   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.43  2.75  46.55 0.97   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    1.96  2.75  43.65  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.08  2.75  37.97 0.79   0.000
    [I%=54.0:S%= 2.00]
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    2.04  2.75  43.38  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.66  3.25  43.37  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.15  2.75  37.20 0.78   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    1.51  3.25  38.87  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    1.58  3.25  38.81  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    1.66  3.17  38.78  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    2.32  3.25  40.08  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.08  2.75  36.86 0.77   0.000
```

```
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.84  2.75  43.18 0.90   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.29  3.33  43.16  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    1.86  2.75  43.55 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.68  3.50  43.54  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.12  2.75  33.23 0.69   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    0.71  3.42  42.84  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.15  2.75  38.24 0.80   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    3.55  2.83  42.64 0.89   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    1.29  3.50  42.64  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.08  2.75  25.69 0.54   0.000
    [I%=18.0:S%= 2.00]
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    1.32  3.42  42.03  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.23  2.75  37.78  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    0.82  3.25  42.25  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    3.14  3.25  40.65  n/a   0.000
*
```

```
    ADD [  0041+  0033]  0041  1  5.0  128.50    4.44  3.25  41.07  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    4.73  3.25  41.19  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    4.73  3.25  41.19  n/a   0.000
       Outflow           0002  2  5.0   68.29    2.37  3.25  41.19  n/a   0.000
       Outflow           0002  3  5.0   68.29    2.37  3.25  41.19  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    0.93  2.75  42.64 0.89   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.32  3.33  42.62  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.28  2.75  32.02 0.67   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.17  2.75  36.87 0.77   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.45  2.75  33.67  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.68  2.75  39.14  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    2.87  3.25  40.83  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    0.75  6.50  40.78  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.29  2.75  32.02 0.67   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    2.48  3.25  40.72  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    0.29  8.00  40.58  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.71  2.75  32.02 0.67   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
```

```
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.09  2.75  46.55 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7707  1  5.0    9.06    0.38  2.17  46.55  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    0.76  6.33  39.85  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    0.76  6.33  39.85  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    1.01  6.58  40.16  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    1.01  6.58  40.16  n/a   0.000
*
    ADD [  0060+  7707]  0060  3  5.0  173.66    1.16  2.75  40.50  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.02  2.92  16.58 0.35   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.04  2.75  30.52 0.64   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    1.18  2.75  40.43  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    1.22  2.75  40.38  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0219  1  5.0    7.80    0.30  3.08  21.29 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0220  1  5.0    1.40    0.07  2.92  21.28 0.45   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    READ STORM                15.0
    [ Ptot= 47.81 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\8a3ab6d1-660c-4292-b484-c9d54ab850f6\f5372bb9-33f4-4fdc-9215-1f
    remark: 5 Year 6 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0006  1  5.0    0.50    0.03  2.83  21.25 0.44   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.09  2.83  21.27  n/a   0.000
```

```
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.38  3.00  21.28  n/a   0.000
*
```

```
**********
** SIMULATION:4. 10 Year 6 Hour **
**********
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.03  2.92  22.20 0.40   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.07  2.83  22.11 0.40   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    0.89  3.42  21.99 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.20  2.75  54.37 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.10  2.83  22.14  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    0.94  3.33  21.99  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    0.98  3.25  23.42  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.10  2.75  27.82 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.04  2.75  21.23 0.38   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.06  2.75  53.84 0.97   0.000
    [I%=99.0:S%= 2.00]
```

```
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.20  3.33  53.80  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.50  2.75  49.95 0.90   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.36  2.75  49.95  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.07  2.75  40.22 0.72   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.14  2.75  25.55  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.21  2.75  30.10  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.39  2.75  48.20  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    1.76  2.75  49.14  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.29  4.50  49.08  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.18  3.17  21.98 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.05  2.92  27.62 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    2.17  2.75  50.73 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.76  3.42  50.72  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    0.94  3.33  44.60  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    0.97  3.25  43.96  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.09  2.75  45.71 0.82   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    1.01  3.25  44.01  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    2.10  2.75  50.92 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.74  3.33  50.91  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.13  2.83  33.29 0.60   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.82  3.25  49.09  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.10  2.75  45.42 0.82   0.000
    [I%=54.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.65  2.75  45.38 0.81   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.66  2.75  54.41 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    2.31  2.75  51.37  n/a   0.000
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    2.42  2.75  51.08  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.78  3.25  51.07  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.18  2.75  44.54 0.80   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
```

```
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.19  2.75  45.71 0.82   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    1.83  3.25  46.24  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    1.91  3.17  46.18  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    2.01  3.08  46.16  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    2.79  3.08  47.55  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.19  2.75  45.71 0.82   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.10  2.75  44.17 0.79   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.11  2.75  31.77 0.57   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    4.26  2.75  50.34 0.90   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    1.53  3.50  50.34  n/a   0.000
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    1.57  3.42  49.67  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    2.23  2.75  51.32 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.80  3.42  51.31  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.14  2.75  39.81 0.71   0.000
```

```
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    0.84  3.42  50.53  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    1.01  2.75  50.92 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.35  3.33  50.90  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.29  2.75  45.20  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    0.97  3.25  49.91  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    3.76  3.17  48.16  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    5.30  3.25  48.62  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    5.65  3.25  48.76  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    5.65  3.25  48.76  n/a   0.000
       Outflow           0002  2  5.0   68.29    2.82  3.25  48.76  n/a   0.000
       Outflow           0002  3  5.0   68.29    2.82  3.25  48.76  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.34  2.75  38.59 0.69   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.20  2.75  44.17 0.79   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    1.10  2.75  50.34 0.90   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.38  3.33  50.32  n/a   0.000
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.55  2.75  40.49  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.82  2.75  46.50  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    3.42  3.25  48.36  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    1.01  6.25  48.31  n/a   0.000
*
    READ STORM                15.0
```

```
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.35  2.75  38.59 0.69   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    2.96  3.25  48.23  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    0.44  7.50  48.08  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.86  2.75  38.59 0.69   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.28  2.75  54.41 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7693  1  5.0    9.06    0.38  1.92  54.41  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    1.04  6.25  47.27  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    1.04  6.25  47.27  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    1.43  6.33  47.62  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    1.43  6.33  47.62  n/a   0.000
*
    ADD [  0060+  7693]  0060  3  5.0  173.66    1.58  5.08  47.98  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.02  2.92  21.98 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.05  2.75  36.87 0.66   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    1.58  5.08  47.90  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    1.59  5.08  47.85  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.04  2.75  27.57 0.50   0.000
    [CN=88.0         ]
```

```
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.09  2.92  27.62 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.12  2.83  27.61  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 55.69 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\4016ce29-72c2-431c-ab92-0f
    remark: 10 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0219  1  5.0    7.80    0.40  3.08  27.62 0.50   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.50  3.00  27.62  n/a   0.000
*
**********
** SIMULATION:5. 25 Year 6 Hour **
**********
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.04  2.83  29.15 0.44   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.10  2.83  29.04 0.44   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    1.20  3.33  29.26 0.45   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.23  2.75  64.24 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.14  2.83  29.08  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    1.26  3.33  29.25  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    1.32  3.25  30.79  n/a   0.000
*
    READ STORM                15.0
```

```
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.13  2.75  35.80 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.05  2.75  27.91 0.43   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.25  2.75  63.72 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.24  3.33  63.67  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.79  2.75  59.50 0.91   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.62  2.75  59.50  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.09  2.75  48.94 0.75   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.18  2.75  33.09  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.27  2.75  38.01  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.48  2.75  57.61  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    2.10  2.75  58.62  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.35  4.42  58.56  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.24  3.17  29.26 0.45   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.07  2.92  35.95 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    2.62  2.75  60.48 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.91  3.33  60.47  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    1.14  3.25  53.82  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    1.20  3.25  53.15  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.11  2.75  55.21 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    1.24  3.25  53.22  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    2.57  2.75  60.69 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.88  3.33  60.68  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.18  2.83  41.64 0.63   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.99  3.17  58.71  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.13  2.75  54.90 0.84   0.000
    [I%=54.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.79  2.75  54.81 0.84   0.000
    [I%=52.0:S%= 2.00]
*
```

```
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.96  2.75  64.29 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    2.76  2.75  61.10  n/a   0.000
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    2.88  2.75  60.80  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.93  3.25  60.79  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.22  2.75  53.90 0.82   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.24  2.75  55.21 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    2.23  3.25  55.62  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    2.33  3.17  55.56  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    2.47  3.00  55.55  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    3.39  3.08  57.03  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.23  2.75  55.21 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.12  2.75  53.47 0.82   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.14  2.75  39.97 0.61   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    5.16  2.75  60.06 0.92   0.000
```

```
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    1.83  3.42  60.06  n/a   0.000
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    1.88  3.42  59.33  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    2.69  2.75  61.12 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.96  3.42  61.11  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.18  2.75  48.75 0.74   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    1.01  3.25  60.27  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    1.21  2.75  60.69 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.42  3.33  60.67  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.36  2.75  54.63  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    1.16  3.25  59.61  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    4.55  3.08  57.70  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    6.39  3.25  58.20  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    6.81  3.25  58.34  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    6.81  3.25  58.34  n/a   0.000
       Outflow           0002  2  5.0   68.29    3.40  3.25  58.34  n/a   0.000
       Outflow           0002  3  5.0   68.29    3.40  3.25  58.34  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.42  2.75  47.09 0.72   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.26  2.75  53.48 0.82   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    1.33  2.75  60.06 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.45  3.33  60.04  n/a   0.000
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.68  2.75  49.26  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    1.01  2.75  55.85  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    4.12  3.17  57.91  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    1.27  6.08  57.86  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.44  2.75  47.08 0.72   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    3.57  3.25  57.76  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    0.67  7.00  57.60  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    1.09  2.75  47.09 0.72   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.51  2.75  64.29 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7693  1  5.0    9.06    0.38  1.92  64.29  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    1.30  6.08  56.70  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    1.30  6.08  56.70  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    1.94  6.25  57.10  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    1.94  6.25  57.10  n/a   0.000
*
    ADD [  0060+  7693]  0060  3  5.0  173.66    2.23  5.67  57.47  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.03  2.92  29.25 0.45   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.07  2.75  45.53 0.69   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    2.23  5.67  57.39  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    2.23  5.67  57.33  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.05  2.75  35.89 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.11  2.92  35.95 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.16  2.83  35.94  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 65.59 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\598cae38-214b-43d0-a8a0-a0
    remark: 25 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0219  1  5.0    7.80    0.52  3.08  35.96 0.55   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.66  3.00  35.95  n/a   0.000
*
*********************************
** SIMULATION:6. 50 Year 6 Hour **
*********************************
    READ STORM                 15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.05  2.83  34.63 0.47   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                 15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.12  2.83  34.52 0.47   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
```

```
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    1.44  3.33  34.99 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.26  2.75  71.63 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.16  2.83  34.55  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    1.52  3.33  34.96  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    1.58  3.25  36.58  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.15  2.75  41.96 0.57   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.06  2.75  33.17 0.45   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.40  2.75  71.11 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.27  3.33  71.07  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    2.00  2.75  66.68 0.91   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.81  2.75  66.68  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.10  2.75  55.59 0.76   0.000
```

```
    [I%=50.0:S%= 2.00]
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.21  2.75  38.94  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.31  2.75  44.11  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.55  2.75  64.70  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    2.36  2.75  65.76  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.40  4.42  65.70  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.29  3.17  34.99 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.08  2.92  42.39 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    3.00  2.75  67.80 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    1.03  3.33  67.79  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    1.31  3.25  60.80  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    1.37  3.25  60.11  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.13  2.75  62.37 0.85   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    1.42  3.17  60.18  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    2.89  2.75  68.02 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.99  3.33  68.01  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.21  2.83  48.06 0.66   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    1.11  3.08  65.94  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.14  2.75  62.05 0.85   0.000
    [I%=54.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.93  2.75  61.94 0.85   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    2.19  2.75  71.69 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    3.11  2.75  68.40  n/a   0.000
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    3.26  2.75  68.10  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    1.05  3.25  68.09  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.25  2.75  60.97 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.27  2.75  62.37 0.85   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    2.53  3.17  62.71  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    2.66  3.08  62.65  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    2.83  3.00  62.63  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    3.87  3.00  64.18  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.27  2.75  62.37 0.85   0.000
```

```
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.14  2.75  60.52 0.83   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.17  2.75  46.29 0.63   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    5.96  2.75  67.36 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    2.06  3.42  67.36  n/a   0.000
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    2.12  3.33  66.60  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    3.10  2.75  68.46 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    1.08  3.42  68.45  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.21  2.75  55.55 0.76   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    1.14  3.25  67.58  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    1.37  2.75  68.02 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.47  3.33  68.00  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.41  2.75  61.75  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    1.35  2.92  66.90  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    5.20  3.00  64.89  n/a   0.000
*
```

```
    ADD [  0041+  0033]  0041  1  5.0  128.50    7.24  3.17  65.41  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    7.70  3.17  65.56  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    7.70  3.17  65.56  n/a   0.000
       Outflow           0002  2  5.0   68.29    3.85  3.17  65.56  n/a   0.000
       Outflow           0002  3  5.0   68.29    3.85  3.17  65.56  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.50  2.75  53.58 0.73   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.29  2.75  60.52 0.83   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    1.49  2.75  67.36 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.51  3.25  67.34  n/a   0.000
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.79  2.75  55.93  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    1.17  2.75  62.91  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    4.68  3.00  65.10  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    1.57  5.83  65.04  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.50  2.75  53.58 0.73   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    4.04  3.08  64.94  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    0.86  6.75  64.77  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    1.25  2.75  53.58 0.73   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
```

```
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.68  2.75  71.69 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7693  1  5.0    9.06    0.38  1.92  71.69  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    1.60  5.83  63.82  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    1.60  5.83  63.82  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    2.42  6.17  64.24  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    2.42  6.17  64.24  n/a   0.000
*
    ADD [  0060+  7693]  0060  3  5.0  173.66    2.80  6.17  64.62  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.04  2.92  34.97 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.08  2.75  52.15 0.71   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    2.80  6.17  64.54  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    2.81  6.17  64.48  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.06  2.75  42.32 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.13  2.92  42.39 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.19  2.83  42.37  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\a350b7ad-6614-4262-8610-5f
    remark: 50 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0219  1  5.0    7.80    0.62  3.00  42.40 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
```

```
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.78  3.00  42.40  n/a   0.000
*
**********************************
** SIMULATION:7. 100 Year 6 Hour **
**********************************
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.06  2.83  40.23 0.50   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.14  2.83  40.11 0.50   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    1.69  3.33  40.83 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.28  2.75  78.92 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.19  2.83  40.15  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    1.78  3.33  40.78  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    1.85  3.25  42.47  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.16  2.75  48.15 0.60   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.07  2.75  38.54 0.48   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    1.54  2.75  78.41 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.30  3.33  78.37  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    2.21  2.75  73.79 0.92   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    2.00  2.75  73.79  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.12  2.75  62.23 0.77   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.23  2.75  44.85  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.35  2.75  50.24  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.62  2.75  71.72  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    2.62  2.75  72.83  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.45  4.42  72.77  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.34  3.17  40.83 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.10  2.92  48.88 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    3.33  2.75  75.04 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    1.14  3.33  75.03  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    1.47  3.25  67.74  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    1.55  3.17  67.03  n/a   0.000
```

```
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.15  2.75  69.47 0.87   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    1.60  3.17  67.11  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    3.22  2.75  75.26 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    1.10  3.33  75.26  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.24  2.83  54.52 0.68   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    1.24  3.08  73.11  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.16  2.75  69.14 0.86   0.000
    [I%=54.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    1.04  2.75  69.01 0.86   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    2.41  2.75  78.99 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    3.45  2.75  75.62  n/a   0.000
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    3.61  2.75  75.31  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    1.16  3.25  75.30  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.28  2.75  68.00 0.85   0.000
```

```
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.30  2.75  69.47 0.87   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    2.84  3.17  69.74  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    2.98  3.08  69.68  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    3.18  3.00  69.67  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    4.33  3.00  71.26  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.30  2.75  69.47 0.87   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.16  2.75  67.51 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.19  2.75  52.65 0.66   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    6.64  2.75  74.58 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    2.29  3.42  74.57  n/a   0.000
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    2.36  3.33  73.79  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    3.45  2.75  75.72 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    1.19  3.33  75.71  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
```

```
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.24  2.75  62.34 0.78   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    1.27  3.25  74.80  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    1.52  2.75  75.26 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.52  3.33  75.25  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.45  2.75  68.82  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    1.51  2.75  74.11  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    5.80  3.00  72.00  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    8.05  3.17  72.54  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    8.57  3.17  72.70  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    8.57  3.17  72.70  n/a   0.000
       Outflow           0002  2  5.0   68.29    4.28  3.17  72.70  n/a   0.000
       Outflow           0002  3  5.0   68.29    4.28  3.17  72.70  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.56  2.75  60.08 0.75   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.33  2.75  67.52 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    1.66  2.75  74.58 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.56  3.25  74.56  n/a   0.000
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.89  2.75  62.60  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    1.31  2.75  69.91  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    5.22  3.00  72.22  n/a   0.000
*
 ** Reservoir
```

```
    OUTFLOW:             0050  1  5.0   82.70    1.90  5.67  72.16  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.57  2.75  60.08 0.75   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    4.51  3.00  72.06  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    1.05  6.58  71.88  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    1.42  2.75  60.08 0.75   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.85  2.75  78.99 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7693  1  5.0    9.06    0.38  1.83  79.01  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    1.94  5.58  70.87  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    1.94  5.58  70.87  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    2.94  5.92  71.31  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    2.94  5.92  71.31  n/a   0.000
*
    ADD [  0060+  7693]  0060  3  5.0  173.66    3.32  5.92  71.71  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.05  2.92  40.81 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.09  2.75  58.77 0.73   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    3.32  5.92  71.63  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    3.32  5.92  71.56  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.07  2.75  48.80 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.15  2.92  48.88 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.22  2.83  48.86  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 80.31 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\e53d8a5f-9cd8-4610-95c1-8a8fe750ab68\da9752c1-e8e5-4068-8e45-67
    remark: 100 Year 6 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0219  1  5.0    7.80    0.71  3.00  48.89 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.91  3.00  48.88  n/a   0.000
*
```

```
*******************************
** SIMULATION:2 Year 12 Hour  **
*******************************
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0002  1  5.0    1.30    0.03  5.25  13.43 0.32   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0001  1  5.0    0.60    0.01  5.33  13.50 0.32   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0200  1  5.0   28.20    0.38  5.67  12.88 0.31   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.07  5.25  40.72 0.97   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.04  5.25  13.45  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    0.40  5.67  12.92  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    0.42  5.67  14.14  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.03  5.25  17.43 0.42   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.01  5.25  12.85 0.31   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.03  5.25  28.56 0.68   0.000
    [I%=50.0:S%= 2.00]
```

```
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.40  5.25  40.19 0.96   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.13  5.33  40.15  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    0.56  5.25  36.87 0.88   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.55  5.25  36.87  n/a   0.000
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.05  5.25  15.86  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.07  5.25  19.80  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.20  5.25  35.34  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    0.75  5.25  36.16  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.17  7.67  36.10  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.08  5.50  12.88 0.31   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.02  5.33  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    0.84  5.25  37.32 0.89   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.49  5.75  37.32  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    0.56  5.67  32.11  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    0.58  5.67  31.54  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.04  5.25  32.78 0.78   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    0.60  5.67  31.58  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    0.63  5.25  40.76 0.97   0.000
    [I%=99.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.25  5.25  32.56 0.78   0.000
    [I%=52.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    0.88  5.25  37.99  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.04  5.25  32.53 0.77   0.000
    [I%=54.0:S%= 2.00]
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    0.92  5.25  37.73  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.52  5.50  37.72  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.08  5.25  32.79 0.78   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    0.82  5.25  37.49 0.89   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.47  5.67  37.49  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.05  5.33  22.35 0.53   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.52  5.67  35.92  n/a   0.000
*
    READ STORM                15.0
```

```
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.07  5.25  31.85 0.76   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    1.11  5.67  33.48  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    1.16  5.58  33.42  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    1.21  5.58  33.40  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    1.73  5.50  34.62  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    1.70  5.25  37.00 0.88   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    0.98  5.83  36.99  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.04  5.25  21.08 0.50   0.000
    [I%=18.0:S%= 2.00]
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    1.00  5.75  36.42  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.04  5.25  31.56 0.75   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    0.89  5.25  37.84 0.90   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.52  5.83  37.83  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.05  5.25  27.85 0.66   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    0.54  5.75  37.15  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.07  5.25  32.79 0.78   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.39  5.25  37.49 0.89   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.22  5.67  37.48  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.11  5.25  32.38  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    0.61  5.58  36.60  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    2.33  5.58  35.13  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    3.31  5.58  35.53  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    3.53  5.58  35.64  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    3.53  5.58  35.64  n/a   0.000
       Outflow           0002  2  5.0   68.29    1.77  5.58  35.64  n/a   0.000
       Outflow           0002  3  5.0   68.29    1.77  5.58  35.64  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.13  5.25  27.31 0.65   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.21  5.25  28.75  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.42  5.25  33.78  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    2.12  5.58  35.32  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    0.50  9.33  35.26  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.13  5.25  27.31 0.65   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    1.83  5.58  35.21  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    0.22 10.67  35.07  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.33  5.25  27.31 0.65   0.000
    [I%=50.0:S%= 2.00]
```

```
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    0.48  5.25  40.76 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7762  1  5.0    9.06    0.38  4.58  40.76  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    0.52  9.25  34.41  n/a   0.000
*
    ADD [  0060+  0067]  0060  1  5.0  164.60    0.74  9.33  34.70  n/a   0.000
*
    ADD [  0060+  7718]  0060  3  5.0  164.60    0.74  9.33  34.70  n/a   0.000
*
    ADD [  0060+  7736]  0060  1  5.0  164.60    0.74  9.33  34.70  n/a   0.000
*
    ADD [  0060+  7762]  0060  3  5.0  173.66    0.83  5.33  35.02  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.02  5.25  25.39 0.60   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    0.84  5.33  34.95  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    0.86  5.33  34.90  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0219  1  5.0    7.80    0.17  5.42  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0220  1  5.0    1.40    0.04  5.33  16.84 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    READ STORM                 15.0
    [ Ptot= 42.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\3afe2a2b-9d9d-47a3-bd9c-70
    remark: 2 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0006  1  5.0    0.50    0.01  5.25  16.81 0.40   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.05  5.33  16.83  n/a   0.000
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.22  5.42  16.84  n/a   0.000
*
*******************************
** SIMULATION:5 Year 12 Hour  **
*******************************
    READ STORM                 15.0
```

```
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.04  5.25  21.23 0.39   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.02  5.33  21.32 0.39   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    0.64  5.67  21.06 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.10  5.25  53.06 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.06  5.25  21.25  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    0.67  5.58  21.07  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    0.70  5.58  22.48  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.05  5.25  26.79 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.02  5.25  20.38 0.37   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.04  5.25  39.08 0.72   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
```

```
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.52  5.25  52.54 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.17  5.33  52.49  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    0.73  5.25  48.69 0.90   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.72  5.25  48.69  n/a   0.000
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.07  5.25  24.58  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.11  5.25  29.08  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.27  5.25  46.96  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    0.99  5.25  47.89  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.25  7.42  47.83  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.13  5.50  21.06 0.39   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.04  5.33  26.54 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    1.14  5.25  49.44 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.66  5.67  49.43  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    0.78  5.58  43.39  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    0.81  5.58  42.75  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.05  5.25  44.46 0.82   0.000
```

```
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    0.83  5.58  42.81  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    0.82  5.25  53.10 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.35  5.25  44.14 0.81   0.000
    [I%=52.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    1.16  5.25  50.08  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.05  5.25  44.17 0.81   0.000
    [I%=54.0:S%= 2.00]
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    1.22  5.25  49.80  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.69  5.50  49.79  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.10  5.25  44.46 0.82   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    1.10  5.25  49.63 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.64  5.67  49.63  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.08  5.33  32.21 0.59   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.70  5.58  47.82  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.10  5.25  43.31 0.80   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    1.54  5.58  45.01  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    1.61  5.50  44.94  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    1.69  5.42  44.93  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    2.37  5.50  46.30  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    2.29  5.25  49.06 0.90   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    1.31  5.75  49.05  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.06  5.25  30.71 0.56   0.000
    [I%=18.0:S%= 2.00]
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    1.35  5.75  48.40  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.05  5.25  42.94 0.79   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    1.20  5.25  50.03 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.69  5.75  50.02  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.07  5.25  38.64 0.71   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    0.72  5.75  49.25  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.10  5.25  44.46 0.82   0.000
    [I%=55.0:S%= 2.00]
*
```

```
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.52  5.25  49.63 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.30  5.67  49.62  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.15  5.25  43.96  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    0.82  5.50  48.63  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    3.19  5.50  46.91  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    4.49  5.58  47.36  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    4.79  5.58  47.49  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    4.79  5.58  47.49  n/a   0.000
       Outflow           0002  2  5.0   68.29    2.40  5.58  47.49  n/a   0.000
       Outflow           0002  3  5.0   68.29    2.40  5.58  47.49  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.18  5.25  37.49 0.69   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.29  5.25  39.34  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.57  5.25  45.27  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    2.88  5.50  47.11  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    0.95  8.58  47.05  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.18  5.25  37.49 0.69   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    2.48  5.50  46.98  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    0.39 10.00  46.81  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.46  5.25  37.49 0.69   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
```

```
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    0.63  5.25  53.10 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7762  1  5.0    9.06    0.38  4.50  53.10  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    1.00  8.25  46.03  n/a   0.000
*
    ADD [  0060+  0067]  0060  1  5.0  164.60    1.33  9.00  46.37  n/a   0.000
*
    ADD [  0060+  7718]  0060  3  5.0  164.60    1.33  9.00  46.37  n/a   0.000
*
    ADD [  0060+  7736]  0060  1  5.0  164.60    1.33  9.00  46.37  n/a   0.000
*
    ADD [  0060+  7762]  0060  3  5.0  173.66    1.37  8.33  46.72  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.03  5.25  35.74 0.66   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    1.37  8.33  46.65  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    1.38  8.33  46.59  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0219  1  5.0    7.80    0.28  5.42  26.55 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0220  1  5.0    1.40    0.06  5.33  26.54 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    READ STORM                15.0
    [ Ptot= 54.38 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\3c44a8c6-5183-4815-a273-9afda3e0ed5e\c761ac3e-cc09-4233-ad4b-36
    remark: 5 Year 12 Hour AES (Bloor, TRCA)
*
 ** CALIB NASHYD         0006  1  5.0    0.50    0.02  5.25  26.50 0.49   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.08  5.25  26.53  n/a   0.000
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.35  5.33  26.55  n/a   0.000
*
```

```
**********************************
** SIMULATION:4. 10 Year 12 Hour **
**********************************
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.02  5.33  27.08 0.43   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.06  5.25  26.98 0.43   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    0.83  5.58  27.10 0.43   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.11  5.25  61.37 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.08  5.25  27.01  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    0.88  5.58  27.09  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    0.91  5.58  28.60  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.06  5.25  33.45 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.02  5.25  25.92 0.41   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.60  5.25  60.84 0.97   0.000
    [I%=99.0:S%= 2.00]
```

```
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.19  5.33  60.80  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    0.85  5.25  56.72 0.90   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.84  5.25  56.71  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.05  5.25  46.38 0.74   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.09  5.25  30.86  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.13  5.25  35.68  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.32  5.25  54.87  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    1.16  5.25  55.85  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.30  7.33  55.80  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.16  5.50  27.09 0.43   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.05  5.33  33.49 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    1.34  5.25  57.64 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.77  5.67  57.63  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    0.93  5.58  51.13  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    0.97  5.58  50.46  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.06  5.25  52.43 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    1.00  5.50  50.53  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    1.29  5.25  57.84 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.75  5.67  57.84  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.10  5.33  39.18 0.62   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.83  5.58  55.91  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.06  5.25  52.13 0.83   0.000
    [I%=54.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.41  5.25  52.06 0.83   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    0.94  5.25  61.42 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    1.35  5.25  58.26  n/a   0.000
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    1.42  5.25  57.97  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.80  5.50  57.96  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.11  5.25  51.16 0.82   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
```

```
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.12  5.25  52.44 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    1.82  5.58  52.89  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    1.90  5.50  52.82  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    1.99  5.42  52.81  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    2.80  5.50  54.26  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.12  5.25  52.44 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.06  5.25  50.75 0.81   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.07  5.25  37.55 0.60   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    2.72  5.25  57.23 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    1.55  5.67  57.22  n/a   0.000
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    1.59  5.67  56.52  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    1.42  5.25  58.26 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.81  5.67  58.26  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.09  5.25  46.12 0.74   0.000
```

```
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    0.85  5.67  57.43  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.61  5.25  57.84 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.35  5.58  57.83  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.18  5.25  51.87  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    0.98  5.42  56.79  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    3.77  5.42  54.92  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    5.33  5.50  55.40  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    5.68  5.50  55.55  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    5.68  5.50  55.55  n/a   0.000
       Outflow           0002  2  5.0   68.29    2.84  5.50  55.55  n/a   0.000
       Outflow           0002  3  5.0   68.29    2.84  5.50  55.55  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.22  5.25  44.59 0.71   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.13  5.25  50.76 0.81   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    0.66  5.25  57.23 0.91   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.38  5.58  57.21  n/a   0.000
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.34  5.25  46.68  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.69  5.25  53.12  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    3.42  5.42  55.13  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    1.14  8.42  55.07  n/a   0.000
*
    READ STORM                15.0
```

```
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.22  5.25  44.59 0.71   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    2.95  5.50  54.99  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    0.57  9.58  54.81  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.56  5.25  44.59 0.71   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    0.72  5.25  61.42 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7693  1  5.0    9.06    0.38  4.33  61.42  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    1.20  8.25  53.95  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    1.20  8.25  53.95  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    1.73  8.83  54.32  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    1.73  8.83  54.32  n/a   0.000
*
    ADD [  0060+  7693]  0060  3  5.0  173.66    1.77  8.25  54.69  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.02  5.33  27.09 0.43   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.04  5.25  42.98 0.69   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    1.77  8.25  54.61  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    1.78  8.25  54.55  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.03  5.25  33.44 0.53   0.000
    [CN=88.0         ]
```

```
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.07  5.33  33.49 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.10  5.25  33.48  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 62.71 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\e4bd620b-35ce-4a6f-a65c-30
    remark: 10 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0219  1  5.0    7.80    0.35  5.42  33.50 0.53   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.45  5.33  33.49  n/a   0.000
*
**********************************
** SIMULATION:5. 25 Year 12 Hour **
**********************************
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.03  5.25  34.71 0.47   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.07  5.25  34.59 0.47   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    1.08  5.58  35.07 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.13  5.25  71.73 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.10  5.25  34.63  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    1.15  5.58  35.04  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    1.18  5.58  36.66  n/a   0.000
*
    READ STORM                15.0
```

```
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.07  5.25  42.04 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.03  5.25  33.24 0.45   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.70  5.25  71.21 0.97   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.23  5.33  71.17  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.00  5.25  66.78 0.91   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    0.99  5.25  66.78  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.06  5.25  55.68 0.76   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.11  5.25  39.02  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.16  5.25  44.19  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.38  5.25  64.80  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    1.37  5.25  65.85  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.36  7.33  65.80  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.21  5.42  35.06 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.06  5.33  42.48 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    1.60  5.25  67.90 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    0.93  5.58  67.89  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    1.13  5.58  60.90  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    1.18  5.50  60.21  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.07  5.25  62.46 0.85   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    1.22  5.50  60.28  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    1.54  5.25  68.12 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    0.89  5.58  68.11  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.12  5.25  48.15 0.66   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    0.99  5.50  66.04  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.08  5.25  62.14 0.85   0.000
    [I%=54.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.50  5.25  62.03 0.85   0.000
    [I%=52.0:S%= 2.00]
*
```

```
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.10  5.25  71.79 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    1.60  5.25  68.50  n/a   0.000
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    1.67  5.25  68.20  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    0.95  5.42  68.19  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.14  5.25  61.07 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.15  5.25  62.47 0.85   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    2.21  5.50  62.81  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    2.31  5.50  62.74  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    2.43  5.42  62.73  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    3.38  5.42  64.27  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.15  5.25  62.47 0.85   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.07  5.25  60.61 0.83   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.09  5.25  46.37 0.63   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    3.25  5.25  67.46 0.92   0.000
```

```
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    1.85  5.67  67.46  n/a   0.000
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    1.89  5.67  66.70  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    1.69  5.25  68.56 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    0.97  5.67  68.56  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.11  5.25  55.64 0.76   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    1.01  5.58  67.68  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.72  5.25  68.12 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.42  5.58  68.10  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.22  5.25  61.85  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    1.17  5.42  67.00  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    4.55  5.42  64.98  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    6.40  5.50  65.50  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    6.82  5.50  65.66  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    6.82  5.50  65.66  n/a   0.000
       Outflow           0002  2  5.0   68.29    3.41  5.50  65.66  n/a   0.000
       Outflow           0002  3  5.0   68.29    3.41  5.50  65.66  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.26  5.25  53.67 0.73   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
```

```
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.16  5.25  60.62 0.83   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    0.78  5.25  67.46 0.92   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.45  5.50  67.45  n/a   0.000
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.42  5.25  56.02  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.84  5.25  63.01  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    4.12  5.42  65.20  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    1.48  8.25  65.14  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.27  5.25  53.67 0.73   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   71.99    3.55  5.42  65.04  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   71.99    0.83  9.08  64.86  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.69  5.25  53.67 0.73   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    0.84  5.25  71.79 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7693  1  5.0    9.06    0.38  4.33  71.79  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    1.56  8.17  63.91  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    1.56  8.17  63.91  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    2.33  8.33  64.32  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    2.33  8.33  64.32  n/a   0.000
*
    ADD [  0060+  7693]  0060  3  5.0  173.66    2.52  7.50  64.71  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.03  5.33  35.05 0.48   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.05  5.25  52.23 0.71   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    2.53  7.50  64.63  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    2.54  7.50  64.56  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.03  5.25  42.41 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.09  5.33  42.48 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.12  5.25  42.46  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 73.10 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\4d77c8b6-8cde-4f61-be31-0f
    remark: 25 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0219  1  5.0    7.80    0.45  5.42  42.49 0.58   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.57  5.33  42.48  n/a   0.000
*
**********************************
** SIMULATION:6. 50 Year 12 Hour **
**********************************
    READ STORM                 15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.04  5.25  40.63 0.50   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                 15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.08  5.25  40.51 0.50   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
```

```
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    1.28  5.58  41.24 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.14  5.25  79.43 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.12  5.25  40.55  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    1.35  5.58  41.20  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    1.40  5.50  42.89  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.08  5.25  48.59 0.60   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.04  5.25  38.93 0.48   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.77  5.25  78.92 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.25  5.33  78.88  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.11  5.25  74.29 0.92   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.09  5.25  74.29  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.06  5.25  62.70 0.78   0.000
```

```
    [I%=50.0:S%= 2.00]
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.12  5.25  45.27  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.18  5.25  50.68  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.43  5.25  72.21  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    1.52  5.25  73.32  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.41  7.33  73.26  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.25  5.42  41.24 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.07  5.33  49.33 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    1.78  5.25  75.54 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    1.03  5.58  75.53  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    1.28  5.58  68.23  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    1.33  5.50  67.52  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.08  5.25  69.96 0.87   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    1.38  5.50  67.60  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    1.71  5.25  75.77 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    1.00  5.58  75.76  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
```

```
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.14  5.25  54.97 0.68   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    1.11  5.50  73.61  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.08  5.25  69.63 0.86   0.000
    [I%=54.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.56  5.25  69.50 0.86   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.22  5.25  79.50 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    1.77  5.25  76.13  n/a   0.000
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    1.86  5.25  75.82  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    1.05  5.42  75.81  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.16  5.25  68.49 0.85   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.17  5.25  69.97 0.87   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    2.48  5.50  70.23  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    2.59  5.50  70.17  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    2.71  5.42  70.16  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    3.77  5.42  71.76  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.16  5.25  69.97 0.87   0.000
```

```
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.08  5.25  68.00 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.11  5.25  53.10 0.66   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    3.62  5.25  75.08 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    2.06  5.67  75.08  n/a   0.000
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    2.12  5.58  74.29  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    1.88  5.25  76.23 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    1.08  5.67  76.22  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.12  5.25  62.81 0.78   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    1.14  5.58  75.31  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.80  5.25  75.77 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.47  5.50  75.76  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.25  5.25  69.31  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    1.32  5.42  74.61  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    5.09  5.42  72.50  n/a   0.000
*
```

```
    ADD [  0041+  0033]  0041  1  5.0  128.50    7.16  5.50  73.04  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    7.63  5.50  73.20  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    7.63  5.50  73.20  n/a   0.000
       Outflow           0002  2  5.0   68.29    3.81  5.50  73.20  n/a   0.000
       Outflow           0002  3  5.0   68.29    3.81  5.50  73.20  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.30  5.25  60.54 0.75   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.17  5.25  68.01 0.84   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    0.87  5.25  75.08 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.51  5.50  75.07  n/a   0.000
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.47  5.25  63.07  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    0.94  5.25  70.41  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    4.62  5.42  72.72  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0050  1  5.0   82.70    1.82  8.00  72.66  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.30  5.25  60.54 0.75   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    3.98  5.42  72.55  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    1.02  8.92  72.36  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.78  5.25  60.54 0.75   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
```

```
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    0.93  5.25  79.50 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7693  1  5.0    9.06    0.38  4.33  79.50  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    1.90  7.92  71.36  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    1.90  7.92  71.36  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    2.87  8.25  71.80  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    2.87  8.25  71.80  n/a   0.000
*
    ADD [  0060+  7693]  0060  3  5.0  173.66    3.23  8.00  72.20  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.03  5.33  41.23 0.51   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.06  5.25  59.24 0.73   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    3.24  8.00  72.11  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    3.25  8.00  72.05  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.04  5.25  49.25 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.10  5.33  49.33 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.14  5.25  49.31  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 80.82 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\24d9f0f6-cf73-497a-99d7-44
    remark: 50 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0219  1  5.0    7.80    0.52  5.42  49.34 0.61   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
```

```
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.66  5.33  49.34  n/a   0.000
*
***********************************
** SIMULATION:7. 100 Year 12 Hour **
***********************************
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.04  5.25  46.74 0.53   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.10  5.25  46.61 0.53   0.000
    [CN=79.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0200  1  5.0   28.20    1.49  5.58  47.59 0.54   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.64]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.16  5.25  87.14 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.14  5.25  46.65  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    1.57  5.50  47.53  n/a   0.000
*
    ADD [  0010+  0201]  0010  3  5.0   31.49    1.61  5.50  49.28  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         7667  1  5.0    1.05    0.10  5.25  55.24 0.62   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.04  5.25  44.77 0.51   0.000
    [CN=80.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB STANDHYD       7670  1  5.0    7.50    0.85  5.25  86.63 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7674  1  5.0    7.50    0.27  5.33  86.58  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7672  1  5.0   11.24    1.22  5.25  81.82 0.92   0.000
    [I%=85.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7675  1  5.0   11.24    1.20  5.25  81.82  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       7668  1  5.0    0.72    0.07  5.25  69.79 0.79   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0223+  7667]  7671  3  5.0    1.60    0.14  5.25  51.64  n/a   0.000
*
    ADD [  7671+  7668]  7671  1  5.0    2.32    0.21  5.25  57.27  n/a   0.000
*
    ADD [  7671+  7674]  7671  3  5.0    9.82    0.47  5.25  79.66  n/a   0.000
*
    ADD [  7671+  7675]  7671  1  5.0   21.06    1.68  5.25  80.81  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7673  1  5.0   21.06    0.45  7.25  80.75  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.29  5.42  47.59 0.54   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.07  5.33  56.30 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    1.96  5.25  83.19 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0011  1  5.0   18.10    1.14  5.58  83.19  n/a   0.000
*
    ADD [  0011+  0004]  0013  3  5.0   23.00    1.42  5.58  75.60  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    1.49  5.50  74.88  n/a   0.000
```

```
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.08  5.25  77.49 0.88   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    1.53  5.50  74.96  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    1.88  5.25  83.43 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0015  1  5.0   17.30    1.10  5.58  83.42  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.16  5.25  61.89 0.70   0.000
    [I%=24.0:S%= 2.00]
*
    ADD [  0015+  0032]  0020  3  5.0   19.30    1.23  5.50  81.19  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.09  5.25  77.16 0.87   0.000
    [I%=54.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.62  5.25  77.00 0.87   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.33  5.25  87.21 0.98   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0206+  0221]  7702  3  5.0   17.80    1.95  5.25  83.77  n/a   0.000
*
    ADD [  0222+  7702]  7704  3  5.0   18.70    2.04  5.25  83.45  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0024  1  5.0   18.70    1.16  5.42  83.44  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.17  5.25  75.94 0.86   0.000
```

```
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.18  5.25  77.50 0.88   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    2.76  5.50  77.69  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    2.87  5.50  77.63  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    3.02  5.42  77.62  n/a   0.000
*
    ADD [  0028+  0024]  0028  1  5.0   66.20    4.18  5.42  79.27  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.18  5.25  77.50 0.88   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.09  5.25  75.43 0.85   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.12  5.25  59.94 0.68   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    4.01  5.25  82.72 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0031  1  5.0   37.60    2.29  5.67  82.72  n/a   0.000
*
    ADD [  0003+  0031]  0033  3  5.0   39.00    2.35  5.58  81.90  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    2.08  5.25  83.90 0.95   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0036  1  5.0   19.20    1.19  5.58  83.90  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
```

```
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.14  5.25  70.05 0.79   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0036+  0007]  0025  3  5.0   20.60    1.25  5.58  82.95  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    0.88  5.25  83.43 0.94   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0039  1  5.0    8.09    0.52  5.50  83.42  n/a   0.000
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.27  5.25  76.81  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    1.46  5.33  82.24  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   89.50    5.63  5.42  80.04  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  128.50    7.92  5.50  80.61  n/a   0.000
*
    ADD [  0041+  0039]  0041  3  5.0  136.59    8.44  5.50  80.77  n/a   0.000
*
    DIVERT HYD           0069  1  5.0  136.59    8.44  5.50  80.77  n/a   0.000
       Outflow           0002  2  5.0   68.29    4.22  5.50  80.77  n/a   0.000
       Outflow           0002  3  5.0   68.29    4.22  5.50  80.77  n/a   0.000
       Outflow           0002  4  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  5  5.0    0.00    0.00  0.00   0.00  n/a   0.000
       Outflow           0002  6  5.0    0.00    0.00  0.00   0.00  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.34  5.25  67.50 0.76   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.19  5.25  75.44 0.85   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    0.96  5.25  82.72 0.93   0.000
    [I%=71.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             0043  1  5.0    8.81    0.56  5.50  82.71  n/a   0.000
*
    ADD [  0215+  0216]  0047  3  5.0    5.60    0.53  5.25  70.19  n/a   0.000
*
    ADD [  0047+  0043]  0047  1  5.0   14.41    1.04  5.25  77.84  n/a   0.000
*
    ADD [  0047+  0069]  0047  3  5.0   82.70    5.13  5.33  80.26  n/a   0.000
*
 ** Reservoir
```

```
    OUTFLOW:             0050  1  5.0   82.70    2.17  7.75  80.20  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.34  5.25  67.50 0.76   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0069]  0065  3  5.0   72.00    4.41  5.42  80.09  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             0067  1  5.0   72.00    1.21  8.75  79.90  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    0.87  5.25  67.50 0.76   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.02  5.25  87.21 0.98   0.000
    [I%=99.0:S%= 2.00]
*
 ** Reservoir
    OUTFLOW:             7693  1  5.0    9.06    0.38  4.33  87.21  n/a   0.000
*
    ADD [  0217+  0050]  0060  3  5.0   92.60    2.28  7.67  78.84  n/a   0.000
*
    ADD [  0060+  0051]  0060  1  5.0   92.60    2.28  7.67  78.84  n/a   0.000
*
    ADD [  0060+  0067]  0060  3  5.0  164.60    3.41  8.00  79.30  n/a   0.000
*
    ADD [  0060+  0068]  0060  1  5.0  164.60    3.41  8.00  79.30  n/a   0.000
*
    ADD [  0060+  7693]  0060  3  5.0  173.66    3.79  8.00  79.72  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.04  5.33  47.58 0.54   0.000
    [CN=82.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.06  5.25  66.32 0.75   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  0060]  7639  3  5.0  174.16    3.80  8.00  79.62  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  175.06    3.81  8.00  79.56  n/a   0.000
*
    READ STORM                15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
```

```
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.05  5.25  56.21 0.63   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.12  5.33  56.30 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.32]
*
    ADD [  0220+  0006]  0076  3  5.0    1.90    0.16  5.25  56.28  n/a   0.000
*
    READ STORM                 15.0
    [ Ptot= 88.54 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\ed58ecfb-0ba9-4c37-ba69-488d910c1db4\b69d30cc-79da-40ef-8cba-f2
    remark: 100 Year 12 Hour AES (Bloor, TRCA)
*
 *  CALIB NASHYD         0219  1  5.0    7.80    0.59  5.33  56.31 0.64   0.000
    [CN=88.0         ]
    [ N = 3.0:Tp 0.44]
*
    ADD [  0219+  0076]  0075  3  5.0    9.70    0.75  5.33  56.31  n/a   0.000
*
```

```
*******************************
** SIMULATION:Regional        **
*******************************
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.08 10.00 182.77 0.86   0.000
    [CN=90.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.19 10.00 182.47 0.86   0.000
    [CN=90.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0200  1  5.0   28.20    3.34 10.50 181.63 0.86   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.64]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.27 10.00 182.56  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    3.55 10.50 181.69  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         7688  1  5.0    1.05    0.15 10.00 181.43 0.86   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.07 10.00 171.85 0.81   0.000
    [CN=90.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       7716  1  5.0   11.24    1.65 10.00 207.00 0.98   0.000
    [I%=85.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       7689  1  5.0    0.72    0.10 10.00 198.99 0.94   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 60.0
```

```
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       7690  1  5.0    7.50    1.10 10.00 210.20 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0223+  7688]  7687  3  5.0    1.60    0.22 10.00 178.14  n/a   0.000
*
    ADD [  7687+  7689]  7687  1  5.0    2.32    0.32 10.00 184.61  n/a   0.000
*
    ADD [  7687+  7690]  7687  3  5.0    9.82    1.43 10.00 204.15  n/a   0.000
*
    ADD [  7687+  7716]  7687  1  5.0   21.06    3.08 10.00 205.67  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.62 10.25 181.62 0.86   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.13 10.08 188.93 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    2.63 10.00 208.66 0.98   0.000
    [I%=71.0:S%= 2.00]
*
    ADD [  0202+  0004]  0013  3  5.0   23.00    3.21 10.00 202.90  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    3.34 10.00 202.37  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.12 10.00 205.09 0.97   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    3.45 10.00 202.46  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.28 10.00 193.84 0.91   0.000
    [I%=24.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    2.51 10.00 208.91 0.99   0.000
```

```
    [I%=71.0:S%= 2.00]
*
    ADD [  0205+  0032]  0020  3  5.0   19.30    2.79 10.00 207.35  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.87 10.00 205.00 0.97   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.13 10.00 204.88 0.97   0.000
    [I%=54.0:S%= 2.00]
*
    ADD [  0206+  0222]  7718  3  5.0    6.90    1.00 10.00 204.98  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.24 10.00 203.76 0.96   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.26 10.00 205.10 0.97   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    6.25 10.00 204.61  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    6.49 10.00 204.58  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    6.75 10.00 204.60  n/a   0.000
*
    ADD [  0028+  7718]  0028  1  5.0   54.40    7.75 10.00 204.64  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    2.76 10.00 209.17 0.99   0.000
    [I%=71.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.20 10.00 200.19 0.94   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0208+  0007]  0025  3  5.0   20.60    2.97 10.00 208.56  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
```

```
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.20 10.00 192.66 0.91   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    5.40 10.00 208.40 0.98   0.000
    [I%=71.0:S%= 2.00]
*
    ADD [  0210+  0003]  0033  3  5.0   39.00    5.61 10.00 207.84  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.26 10.00 205.10 0.97   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.13 10.00 203.75 0.96   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.39 10.00 204.65  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    3.36 10.00 208.10  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   77.70   11.11 10.00 205.68  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  116.70   16.71 10.00 206.40  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    1.18 10.00 209.17 0.99   0.000
    [I%=71.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.33 10.00 210.78 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0212+  2122]  7733  3  5.0   17.15    2.51 10.00 210.02  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    1.29 10.00 208.40 0.98   0.000
    [I%=71.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.20 10.00 210.71 0.99   0.000
```

```
    [I%=99.0:S%= 2.00]
*
    ADD [  0201+  0214]  7732  3  5.0   10.20    1.49 10.00 208.72  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.28 10.00 203.76 0.96   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0215+  0041]  0047  3  5.0  118.60   16.99 10.00 206.36  n/a   0.000
*
    ADD [  0047+  7732]  0047  1  5.0  128.80   18.48 10.00 206.55  n/a   0.000
*
    ADD [  0047+  7733]  0047  3  5.0  145.95   21.00 10.00 206.95  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.53 10.00 196.58 0.93   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    1.40 10.00 196.58 0.93   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.53 10.00 196.58 0.93   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0216]  0060  3  5.0    7.40    1.07 10.00 196.58  n/a   0.000
*
    ADD [  0060+  0217]  0060  1  5.0   17.30    2.47 10.00 196.58  n/a   0.000
*
    ADD [  0060+  0047]  0060  3  5.0  163.25   23.47 10.00 205.86  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7721  1  5.0  163.25   15.15 11.08 205.85  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.07 10.00 181.57 0.86   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.11 10.00 197.14 0.93   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  7721]  7639  3  5.0  163.75   15.20 11.08 205.78  n/a   0.000
```

```
*
    ADD [  7639+  0008]  7639  1  5.0  164.65   15.29 11.08 205.73  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.07 10.00 188.62 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.20 10.00 188.92 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.32]
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.74 10.00 210.78 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0220+  0221]  0076  3  5.0   13.20    1.93 10.00 208.47  n/a   0.000
*
    ADD [  0076+  0006]  0076  1  5.0   13.70    2.01 10.00 207.74  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=212.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\192d2bf7-6a11-4a39-b594-19
    remark: Hurricane Hazel for the last 12 hrs of the storm -INTENSITIE
*
 *  CALIB NASHYD         0219  1  5.0    7.80    1.04 10.17 188.96 0.89   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.44]
*
    ADD [  0219+  0076]  0075  3  5.0   21.50    3.01 10.00 200.93  n/a   0.000
*
*******************************
** SIMULATION:Regional_PCSWMM **
*******************************
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0001  1  5.0    0.60    0.09 46.00 254.94 0.89   0.000
    [CN=90.0         ]
    [ N = 3.0:Tp 0.29]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0002  1  5.0    1.30    0.19 46.00 254.56 0.89   0.000
    [CN=90.0         ]
    [ N = 3.0:Tp 0.21]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
```

```
*
 *  CALIB NASHYD         0200  1  5.0   28.20    3.39 46.50 253.97 0.89   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.64]
*
    ADD [  0001+  0002]  0010  3  5.0    1.90    0.27 46.00 254.68  n/a   0.000
*
    ADD [  0010+  0200]  0010  1  5.0   30.10    3.60 46.42 254.01  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         7688  1  5.0    1.05    0.15 46.00 250.51 0.88   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0223  1  5.0    0.55    0.08 46.00 239.96 0.84   0.000
    [CN=90.0         ]
    [ N = 3.0:Tp 0.08]
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       7716  1  5.0   11.24    1.65 46.00 279.91 0.98   0.000
    [I%=85.0:S%= 2.00]
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       7689  1  5.0    0.72    0.11 46.00 271.67 0.95   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       7690  1  5.0    7.50    1.10 46.00 283.20 0.99   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0223+  7688]  7687  3  5.0    1.60    0.22 46.00 246.88  n/a   0.000
*
    ADD [  7687+  7689]  7687  1  5.0    2.32    0.33 46.00 254.58  n/a   0.000
*
    ADD [  7687+  7690]  7687  3  5.0    9.82    1.43 46.00 276.44  n/a   0.000
*
    ADD [  7687+  7716]  7687  1  5.0   21.06    3.08 46.00 278.29  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0004  1  5.0    4.90    0.63 46.25 253.96 0.89   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.50]
*
    READ STORM                60.0
```

```
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0005  1  5.0    0.90    0.13 46.08 261.62 0.92   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.33]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0202  1  5.0   18.10    2.63 46.00 281.64 0.99   0.000
    [I%=71.0:S%= 2.00]
*
    ADD [  0202+  0004]  0013  3  5.0   23.00    3.22 46.00 275.74  n/a   0.000
*
    ADD [  0013+  0005]  0013  1  5.0   23.90    3.35 46.00 275.21  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0203  1  5.0    0.80    0.12 46.00 278.04 0.98   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0013+  0203]  0014  3  5.0   24.70    3.47 46.00 275.30  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0032  1  5.0    2.00    0.28 46.00 266.50 0.94   0.000
    [I%=24.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0205  1  5.0   17.30    2.52 46.00 281.90 0.99   0.000
    [I%=71.0:S%= 2.00]
*
    ADD [  0205+  0032]  0020  3  5.0   19.30    2.80 46.00 280.31  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0206  1  5.0    6.00    0.87 46.00 277.93 0.98   0.000
    [I%=52.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0222  1  5.0    0.90    0.13 46.00 277.83 0.97   0.000
    [I%=54.0:S%= 2.00]
*
    ADD [  0206+  0222]  7718  3  5.0    6.90    1.00 46.00 277.92  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
```

```
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0204  1  5.0    1.70    0.25 46.00 276.66 0.97   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0207  1  5.0    1.80    0.26 46.00 278.04 0.98   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0014+  0020]  0028  3  5.0   44.00    6.26 46.00 277.50  n/a   0.000
*
    ADD [  0028+  0204]  0028  1  5.0   45.70    6.51 46.00 277.47  n/a   0.000
*
    ADD [  0028+  0207]  0028  3  5.0   47.50    6.77 46.00 277.49  n/a   0.000
*
    ADD [  0028+  7718]  0028  1  5.0   54.40    7.77 46.00 277.54  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0208  1  5.0   19.20    2.77 46.00 282.16 0.99   0.000
    [I%=71.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0007  1  5.0    1.40    0.20 46.00 273.00 0.96   0.000
    [I%=37.0:S%= 2.00]
*
    ADD [  0208+  0007]  0025  3  5.0   20.60    2.97 46.00 281.53  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0003  1  5.0    1.40    0.20 46.00 265.27 0.93   0.000
    [I%=18.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0210  1  5.0   37.60    5.41 46.00 281.38 0.99   0.000
    [I%=71.0:S%= 2.00]
*
    ADD [  0210+  0003]  0033  3  5.0   39.00    5.61 46.00 280.80  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0209  1  5.0    1.80    0.26 46.00 278.04 0.98   0.000
    [I%=55.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
```

```
*
 *  CALIB STANDHYD       0211  1  5.0    0.90    0.13 46.00 276.66 0.97   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0209+  0211]  0041  3  5.0    2.70    0.39 46.00 277.58  n/a   0.000
*
    ADD [  0041+  0025]  0041  1  5.0   23.30    3.36 46.00 281.08  n/a   0.000
*
    ADD [  0041+  0028]  0041  3  5.0   77.70   11.13 46.00 278.60  n/a   0.000
*
    ADD [  0041+  0033]  0041  1  5.0  116.70   16.74 46.00 279.34  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0212  1  5.0    8.09    1.18 46.00 282.16 0.99   0.000
    [I%=71.0:S%= 2.00]
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       2122  1  5.0    9.06    1.33 46.00 283.78 1.00   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0212+  2122]  7733  3  5.0   17.15    2.51 46.00 283.02  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0214  1  5.0    8.81    1.29 46.00 281.38 0.99   0.000
    [I%=71.0:S%= 2.00]
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0201  1  5.0    1.39    0.20 46.00 283.71 1.00   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0201+  0214]  7732  3  5.0   10.20    1.49 46.00 281.70  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0215  1  5.0    1.90    0.28 46.00 276.66 0.97   0.000
    [I%=55.0:S%= 2.00]
*
    ADD [  0215+  0041]  0047  3  5.0  118.60   17.02 46.00 279.29  n/a   0.000
*
    ADD [  0047+  7732]  0047  1  5.0  128.80   18.51 46.00 279.48  n/a   0.000
*
    ADD [  0047+  7733]  0047  3  5.0  145.95   21.02 46.00 279.90  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0213  1  5.0    3.70    0.54 46.00 269.18 0.94   0.000
    [I%=50.0:S%= 2.00]
```

```
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0217  1  5.0    9.90    1.42 46.00 269.18 0.94   0.000
    [I%=50.0:S%= 2.00]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0216  1  5.0    3.70    0.54 46.00 269.18 0.94   0.000
    [I%=50.0:S%= 2.00]
*
    ADD [  0213+  0216]  0060  3  5.0    7.40    1.07 46.00 269.18  n/a   0.000
*
    ADD [  0060+  0217]  0060  1  5.0   17.30    2.49 46.00 269.18  n/a   0.000
*
    ADD [  0060+  0047]  0060  3  5.0  163.25   23.51 46.00 278.76  n/a   0.000
*
 ** Reservoir
    OUTFLOW:             7721  1  5.0  163.25   15.19 47.08 278.76  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0218  1  5.0    0.50    0.07 46.00 253.88 0.89   0.000
    [CN=91.0         ]
    [ N = 3.0:Tp 0.31]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB STANDHYD       0008  1  5.0    0.90    0.11 46.00 269.87 0.95   0.000
    [I%=34.0:S%= 2.00]
*
    ADD [  0218+  7721]  7639  3  5.0  163.75   15.25 47.08 278.69  n/a   0.000
*
    ADD [  7639+  0008]  7639  1  5.0  164.65   15.33 47.08 278.64  n/a   0.000
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0006  1  5.0    0.50    0.07 46.00 261.19 0.92   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.20]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0220  1  5.0    1.40    0.20 46.00 261.61 0.92   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.32]
*
    READ STORM                 60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
```

```
*
 *  CALIB STANDHYD       0221  1  5.0   11.80    1.74 46.00 283.78 1.00   0.000
    [I%=99.0:S%= 2.00]
*
    ADD [  0220+  0221]  0076  3  5.0   13.20    1.94 46.00 281.43  n/a   0.000
*
    ADD [  0076+  0006]  0076  1  5.0   13.70    2.01 46.00 280.69  n/a   0.000
*
    READ STORM                60.0
    [ Ptot=285.00 mm ]
    fname : C:\Users\iforsyth\AppData\Local\Temp\4b26dccc-63f6-4f3d-b0ee-e3a68925ffc8\023e7596-787e-4d13-8e1e-5f
    remark: Regional_Updated
*
 *  CALIB NASHYD         0219  1  5.0    7.80    1.04 46.17 261.66 0.92   0.000
    [CN=94.0         ]
    [ N = 3.0:Tp 0.44]
*
    ADD [  0219+  0076]  0075  3  5.0   21.50    3.02 46.00 273.79  n/a   0.000
*
```

Summary of Post-Development Peak Flow VO Results

Post-Development Peak Runoff Directed to the West Tributary (6-Hour)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)						
	200	201	Total Site	EXT1	EXT2	Total External	Total[1]
2-year	0.365	0.127	**0.492**	0.013	0.034	**0.047**	**0.409**
5-year	0.664	0.169	**0.833**	0.023	0.057	**0.080**	**0.737**
10-year	0.889	0.197	**1.086**	0.030	0.075	**0.105**	**0.984**
25-year	1.195	0.232	**1.427**	0.040	0.099	**0.139**	**1.319**
50-year	1.438	0.258	**1.696**	0.047	0.117	**0.164**	**1.583**
100-year	1.685	0.284	**1.969**	0.055	0.136	**0.191**	**1.852**
Regional	3.341	-	**3.341**	0.084	0.185	**0.269**	**3.549**

1. Total internal and external flows directed to the west tributary.

Post-Development Peak Runoff Directed to the West Tributary (12-Hour)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)						
	200	201	Total Site	EXT1	EXT2	Total External	Total[1]
2-year	0.378	0.074	**0.452**	0.012	0.028	**0.040**	**0.421**
5-year	0.637	0.096	**0.733**	0.019	0.044	**0.063**	**0.701**
10-year	0.828	0.111	**0.939**	0.024	0.056	**0.080**	**0.909**
25-year	1.085	0.129	**1.214**	0.031	0.071	**0.102**	**1.183**
50-year	1.282	0.143	**1.425**	0.036	0.083	**0.119**	**1.395**
100-year	1.486	0.157	**1.643**	0.041	0.095	**0.136**	**1.615**

1. Total internal and external flows directed to the west tributary.

Site Post-Development Peak Uncontrolled Runoff to the Flow Splitter (6-Hour Storm)

Catchment ID	Post-Development Uncontrolled Flow Rate (m^3/s)					
	2-year	5-year	10-year	25-year	50-year	100-year
202	1.270	1.780	2.170	2.617	2.996	3.334
203	0.054	0.079	0.095	0.115	0.130	0.145
204	0.101	0.148	0.180	0.220	0.251	0.281
205	1.235	1.762	2.101	2.568	2.895	3.218
206	0.361	0.535	0.648	0.793	0.927	1.043
207	0.107	0.159	0.193	0.236	0.269	0.301
208	1.319	1.864	2.229	2.694	3.103	3.455
209	0.106	0.153	0.191	0.234	0.266	0.298
210	2.507	3.552	4.258	5.160	5.957	6.642
211	0.057	0.081	0.097	0.122	0.139	0.156
212	0.588	0.836	1.010	1.215	1.368	1.520
221	1.067	1.425	1.664	1.964	2.188	2.409
222	0.059	0.084	0.104	0.127	0.144	0.161
Total to Flow Splitter	8.831	12.458	14.940	18.065	20.633	22.963

Note: Regional flows are conveyed overland (major overland) and are therefore not directed to the flow splitter

Site Post-Development Peak Uncontrolled Runoff into the Flow Splitter (12-Hour Storm)

Catchment ID	Post-Development Uncontrolled Flow Rate (m^3/s)					
	2-year	5-year	10-year	25-year	50-year	100-year
202	0.843	1.142	1.336	1.596	1.778	1.959
203	0.035	0.048	0.057	0.068	0.076	0.085
204	0.069	0.096	0.114	0.137	0.155	0.173
205	0.819	1.101	1.287	1.535	1.709	1.882
206	0.249	0.346	0.411	0.497	0.557	0.618
207	0.075	0.104	0.123	0.148	0.166	0.184
208	0.894	1.197	1.417	1.685	1.885	2.077
209	0.075	0.102	0.123	0.147	0.165	0.183
210	1.703	2.291	2.721	3.245	3.621	4.015
211	0.037	0.051	0.061	0.074	0.083	0.092
212	0.388	0.518	0.605	0.721	0.803	0.884
221	0.629	0.816	0.942	1.099	1.215	1.331
222	0.039	0.054	0.064	0.076	0.085	0.094
Total to Flow Splitter	**5.855**	**7.866**	**9.261**	**11.028**	**12.298**	**13.577**

External Post-Development Peak Uncontrolled Runoff to the Flow Splitter (6-Hour Storm)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)						
	EXT3A	EXT3B	EXT4	EXT5	EXT7	Total External	Total[1]
2-year	0.050	0.065	0.073	0.023	0.081	**0.292**	**3.158**
5-year	0.080	0.106	0.133	0.041	0.118	**0.478**	**4.420**
10-year	0.109	0.134	0.178	0.054	0.145	**0.620**	**5.276**
25-year	0.141	0.181	0.240	0.071	0.179	**0.812**	**6.359**
50-year	0.165	0.212	0.289	0.084	0.205	**0.955**	**7.200**
100-year	0.190	0.244	0.339	0.098	0.238	**1.109**	**8.014**

Note: Regional flows are conveyed overland (major overland) and are therefore not directed to the flow splitter

1. Total internal and external flows directed to the flow splitter (with Block controls).

External Post-Development Peak Uncontrolled Runoff to the Flow Splitter (12-Hour Storm)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)						
	EXT3A	EXT3B	EXT4	EXT5	EXT7	Total External	Total[1]
2-year	0.039	0.052	0.075	0.023	0.054	**0.243**	**3.295**
5-year	0.059	0.079	0.127	0.036	0.075	**0.376**	**4.472**
10-year	0.074	0.098	0.164	0.045	0.091	**0.472**	**5.304**
25-year	0.092	0.124	0.214	0.057	0.110	**0.597**	**6.365**
50-year	0.106	0.144	0.253	0.066	0.124	**0.693**	**7.122**
100-year	0.122	0.163	0.292	0.075	0.138	**0.790**	**7.882**

1. Total internal and external flows directed to the flow splitter (with Block controls).

Post-Development Peak Runoff to Wetland 1 (6-Hour)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)		
	Flow Splitter[1]	213	Total[2]
2-year	1.693	0.195	**1.767**
5-year	2.366	0.285	**2.479**
10-year	2.824	0.346	**2.961**
25-year	3.403	0.438	**3.566**
50-year	3.849	0.502	**4.045**
100-year	4.283	0.567	**4.509**

1. Half of total internal and external flows directed to the flow splitter (with Block controls).
2. Total internal and external flows directed to Wetland 1 (with Block controls).

Post-Development Peak Runoff to Wetland 1 (12-Hour)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)		
	Flow Splitter[1]	213	Total[2]
2-year	1.767	0.130	**1.828**
5-year	2.397	0.181	**2.485**
10-year	2.839	0.219	**2.951**
25-year	3.408	0.266	**3.547**
50-year	3.813	0.301	**3.977**
100-year	4.219	0.337	**4.412**

1. Half of total internal and external flows directed to the flow splitter (with block controls).
2. Total internal and external flows directed to Wetland 1 (with block controls).

Post-Development Peak Runoff to Wetland 2 (6-Hour)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)						
	Flow Splitter[1]	214	215	216	217	Total Site	Total[2]
2-year	1.693	0.656	0.116	0.194	0.485	**1.645**	**2.049**
5-year	2.366	0.926	0.169	0.283	0.707	**2.368**	**2.868**
10-year	2.824	1.102	0.205	0.343	0.858	**2.851**	**3.423**
25-year	3.403	1.325	0.257	0.422	1.088	**3.514**	**4.121**
50-year	3.849	1.493	0.293	0.498	1.249	**4.031**	**4.676**
100-year	4.283	1.659	0.328	0.562	1.417	**4.528**	**5.218**

1. Half of total internal and external flows directed to the flow splitter (with Block controls).
2. Total internal and external flows directed to Wetland 2 (with Block controls).

Post-Development Peak Runoff to Wetland 2 (12-Hour)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)						
	Flow Splitter[1]	214	215	216	217	Total Site	Total[2]
2-year	1.767	0.420	0.079	0.127	0.329	**1.034**	**2.119**
5-year	2.397	0.561	0.108	0.180	0.464	**1.421**	**2.882**
10-year	2.839	0.660	0.129	0.215	0.564	**1.697**	**3.423**
25-year	3.408	0.783	0.155	0.264	0.686	**2.043**	**4.120**
50-year	3.813	0.871	0.174	0.300	0.778	**2.297**	**4.617**
100-year	4.219	0.960	0.193	0.335	0.871	**2.552**	**5.127**

1. Half of total internal and external flows directed to the flow splitter (with Block controls).
2. Total internal and external flows directed to Wetland 2 (with Block controls).

Post-Development Peak Runoff Directed to the East Tributary (6-Hour)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)			
	217	218	EXT8	Total[1]
2-year	0.485	0.010	0.030	**0.952**
5-year	0.707	0.018	0.043	**1.220**
10-year	0.858	0.024	0.053	**1.590**
25-year	1.088	0.032	0.068	**2.233**
50-year	1.249	0.039	0.078	**2.808**
100-year	1.417	0.046	0.092	**3.323**
Regional	1.405	0.070	0.112	**15.286**

1. Total internal and external flows directed to the east tributary (with controls)

Post-Development Peak Runoff Directed to the East Tributary (12-Hour)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)			
	217	218	EXT8	Total[1]
2-year	0.329	0.010	0.021	**0.863**
5-year	0.464	0.016	0.031	**1.375**
10-year	0.564	0.020	0.039	**1.779**
25-year	0.686	0.026	0.048	**2.539**
50-year	0.778	0.031	0.057	**3.250**
100-year	0.871	0.035	0.064	**3.809**

1. Total internal and external flows directed to the east tributary (with controls)

Post-Development Peak Runoff Directed to Salt Creek (6-Hours)

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)					
	219	**220**	**221**	**EXT6**	**Total Site**	**Total**
2-year	0.170	0.037	-	0.017	**0.207**	**0.215**
5-year	0.300	0.065	-	0.029	**0.365**	**0.380**
10-year	0.395	0.086	-	0.038	**0.481**	**0.502**
25-year	0.519	0.113	-	0.050	**0.632**	**0.661**
50-year	0.615	0.133	-	0.059	**0.748**	**0.784**
100-year	0.714	0.154	-	0.068	**0.868**	**0.907**
Regional	1.036	0.197	1.737	0.073	**2.970**	**3.012**

Post-Development Peak Runoff Directed to Salt Creek (12-Hour)

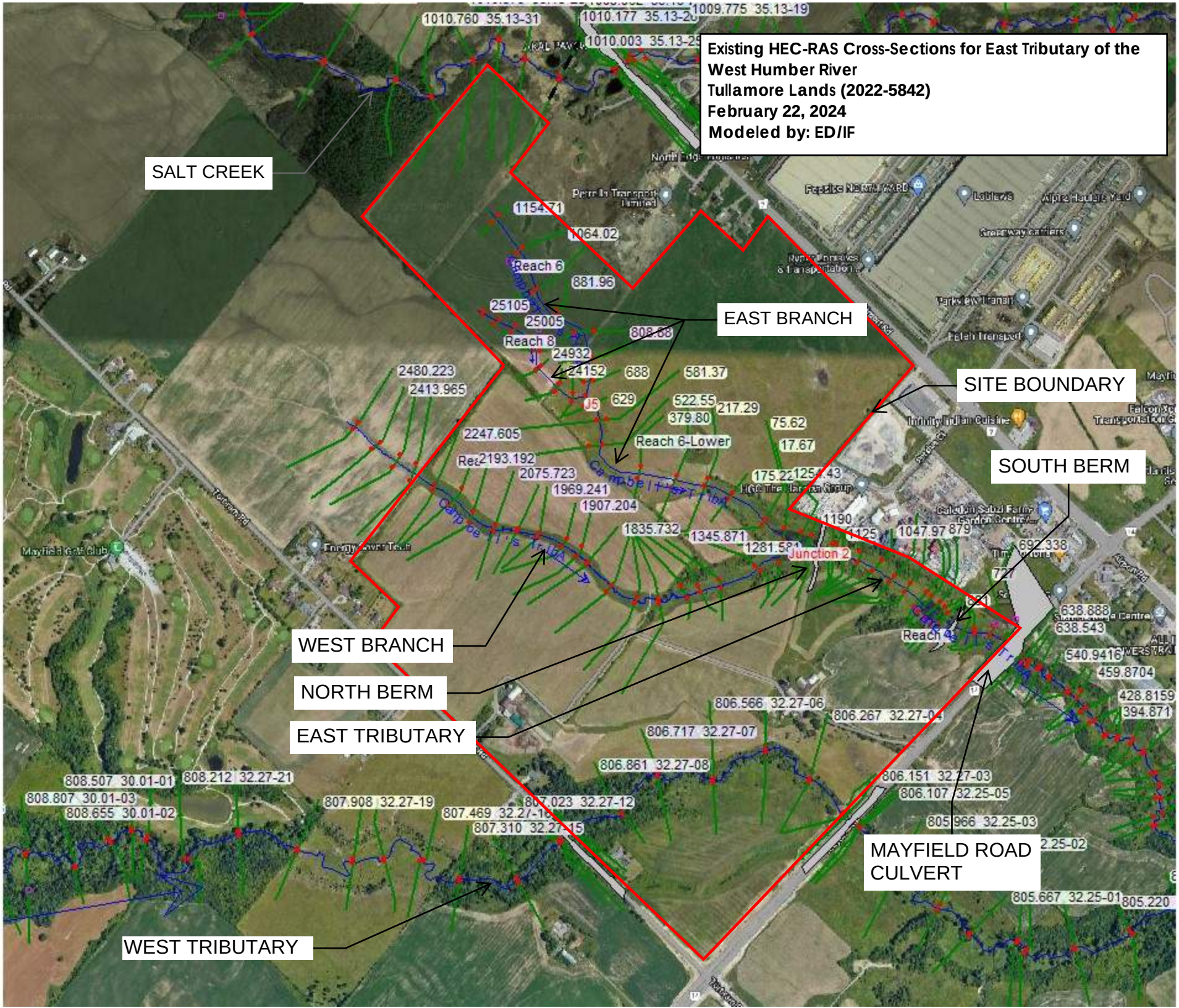
Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)				
	219	**220**	**EXT6**	**Total Site**	**Total**
2-year	0.173	0.036	0.014	**0.209**	**0.220**
5-year	0.278	0.056	0.022	**0.334**	**0.351**
10-year	0.352	0.071	0.028	**0.423**	**0.445**
25-year	0.447	0.089	0.035	**0.536**	**0.566**
50-year	0.518	0.103	0.040	**0.621**	**0.656**
100-year	0.589	0.117	0.045	**0.706**	**0.748**

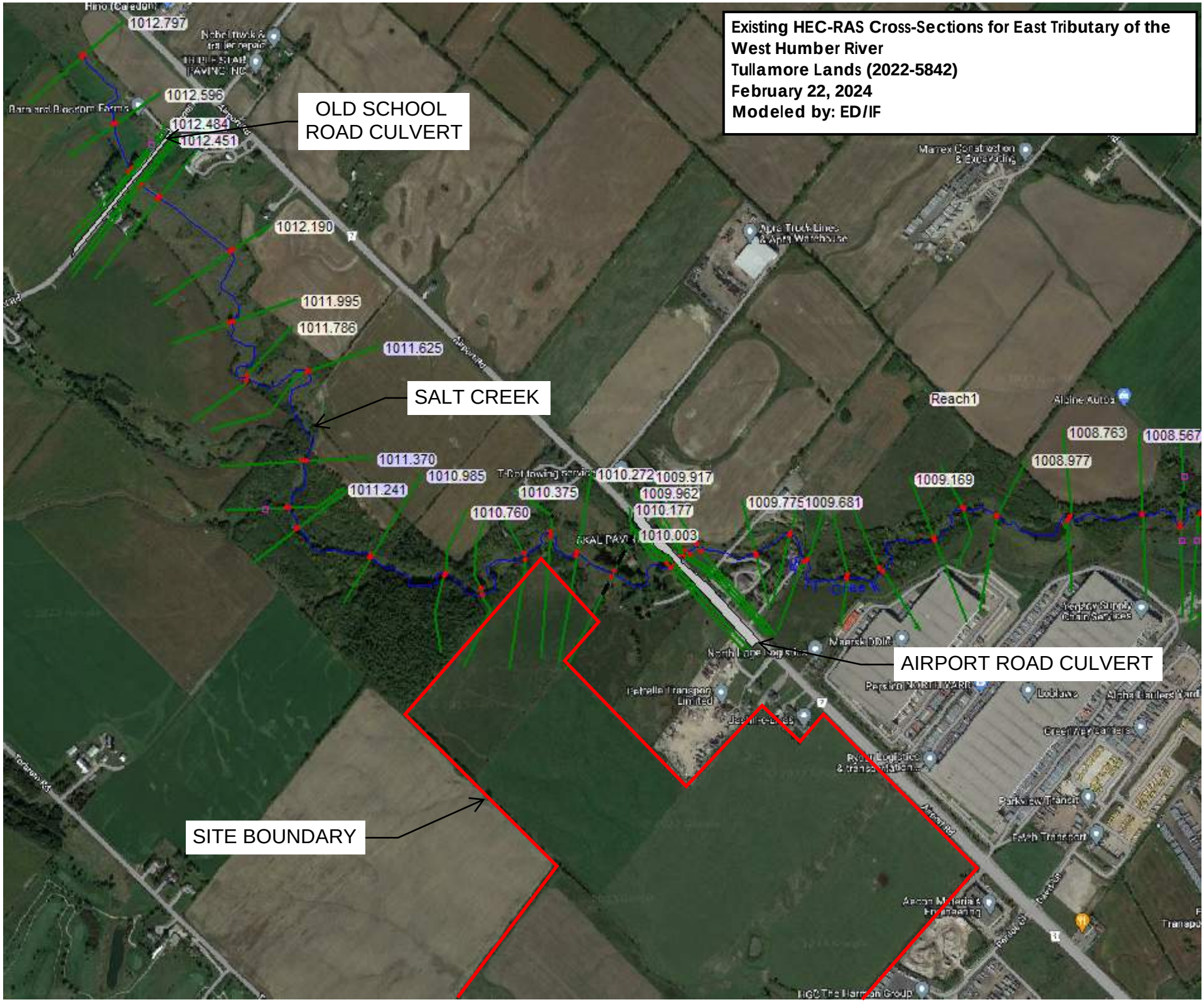
Post-Development Peak Runoff Directed to Neighbouring Property

Design Storm Event	Post-Development Uncontrolled Flow Rate (m^3/s)	
	Catchment 223	
	6-Hour	**12-Hour**
2-year	0.018	0.013
5-year	0.031	0.020
10-year	0.040	0.025
25-year	0.052	0.032
50-year	0.061	0.037
100-year	0.070	0.042
Regional	0.075	

APPENDIX C

Hydraulic Modeling


Existing HEC-RAS Cross-Sections for East Tributary of the West Humber River
Tullamore Lands (2022-5842)
February 22, 2024
Modeled by: ED/IF
SALT CREEK
EAST BRANCH
SITE BOUNDARY
SOUTH BERM
WEST BRANCH
NORTH BERM
EAST TRIBUTARY
MAYFIELD ROAD CULVERT
WEST TRIBUTARY
Reach 6
Reach 8
Reach 6-Lower
Reach 4
Junction 2
1010.760 35.13-31
1010.177 35.13-20
1009.775 35.13-19
1010.003 35.13-25
1154.71
1064.02
881.96
25105
25005
24932
24152
808.88
688
581.37
629
522.55
217.29
379.80
75.62
17.67
2480.223
2413.965
2247.605
2193.192
2075.723
1969.241
1907.204
1835.732
1345.871
1281.584
1190
1125
1047.97
879
692.338
638.888
638.543
540.9416
459.8704
428.8159
394.871
806.566 32.27-06
806.267 32.27-04
806.717 32.27-07
806.861 32.27-08
808.507 30.01-01
808.212 32.27-21
808.807 30.01-03
808.655 30.01-02
807.908 32.27-19
807.469 32.27-16
807.310 32.27-15
807.023 32.27-12
806.151 32.27-03
806.107 32.25-05
805.966 32.25-03
805.667 32.25-01
805.220


Existing HEC-RAS Cross-Sections for East Tributary of the West Humber River
Tullamore Lands (2022-5842)
February 22, 2024
Modeled by: ED/IF
OLD SCHOOL ROAD CULVERT
SALT CREEK
AIRPORT ROAD CULVERT
SITE BOUNDARY
1012.797
1012.596
1012.484
1012.451
1012.190
1011.995
1011.786
1011.625
1011.370
1011.241
1010.985
1010.760
1010.375
1010.272
1010.177
1010.003
1009.962
1009.917
1009.775
1009.681
1009.169
1008.977
1008.763
1008.567
Reach1

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 6	1154.71	2-year	0.45	246.89	247.01	246.99	247.02	0.015503	0.52	0.87	15.70	0.70
Reach 6	1154.71	5-year	0.78	246.89	247.03	247.01	247.05	0.014045	0.60	1.30	17.52	0.70
Reach 6	1154.71	10-year	1.01	246.89	247.05	247.03	247.07	0.013587	0.64	1.59	18.93	0.70
Reach 6	1154.71	25-year	1.33	246.89	247.07	247.04	247.09	0.012779	0.67	1.97	20.62	0.70
Reach 6	1154.71	50-year	1.57	246.89	247.07	247.05	247.10	0.014909	0.75	2.10	21.19	0.76
Reach 6	1154.71	100-year	1.82	246.89	247.09	247.06	247.12	0.013495	0.75	2.42	22.48	0.73
Reach 6	1154.71	Regional	3.50	246.89	247.15	247.12	247.19	0.011080	0.90	3.98	27.93	0.71
Reach 6	1064.02	2-year	0.45	245.66	245.76	245.75	245.77	0.012267	0.46	0.98	17.77	0.62
Reach 6	1064.02	5-year	0.78	245.66	245.78	245.77	245.80	0.013434	0.57	1.35	18.83	0.68
Reach 6	1064.02	10-year	1.01	245.66	245.80	245.78	245.82	0.013960	0.64	1.58	19.37	0.71
Reach 6	1064.02	25-year	1.33	245.66	245.81	245.79	245.84	0.014982	0.72	1.84	19.94	0.75
Reach 6	1064.02	50-year	1.57	245.66	245.83	245.80	245.85	0.012764	0.73	2.16	20.64	0.71
Reach 6	1064.02	100-year	1.82	245.66	245.83	245.81	245.86	0.014098	0.80	2.30	20.94	0.75
Reach 6	1064.02	Regional	3.50	245.66	245.88	245.87	245.94	0.017580	1.10	3.29	24.59	0.89
Reach 6	962.05	2-year	0.45	244.36	244.46	244.45	244.48	0.013647	0.50	0.89	15.18	0.66
Reach 6	962.05	5-year	0.78	244.36	244.49	244.47	244.51	0.012306	0.60	1.30	16.84	0.67
Reach 6	962.05	10-year	1.01	244.36	244.50	244.48	244.53	0.011834	0.66	1.57	17.83	0.67
Reach 6	962.05	25-year	1.33	244.36	244.52	244.50	244.55	0.011074	0.72	1.92	18.90	0.67
Reach 6	962.05	50-year	1.57	244.36	244.53	244.51	244.56	0.012850	0.80	2.04	19.24	0.73
Reach 6	962.05	100-year	1.82	244.36	244.54	244.52	244.58	0.011639	0.82	2.33	19.99	0.71
Reach 6	962.05	Regional	3.50	244.36	244.62		244.67	0.009455	0.99	4.05	25.57	0.68
Reach 6	881.96	2-year	0.45	243.45	243.60		243.62	0.009165	0.55	0.82	9.07	0.58
Reach 6	881.96	5-year	0.78	243.45	243.64	243.60	243.66	0.009721	0.66	1.18	10.50	0.62
Reach 6	881.96	10-year	1.01	243.45	243.66	243.62	243.69	0.009932	0.72	1.42	11.23	0.64
Reach 6	881.96	25-year	1.33	243.45	243.69		243.72	0.010333	0.78	1.69	12.03	0.67
Reach 6	881.96	50-year	1.57	243.45	243.71		243.74	0.008811	0.78	2.02	12.98	0.63
Reach 6	881.96	100-year	1.82	243.45	243.72		243.76	0.009593	0.83	2.18	13.41	0.66
Reach 6	881.96	Regional	3.50	243.45	243.80	243.76	243.86	0.011513	1.05	3.32	16.46	0.75
Reach 6	808.88	2-year	0.45	242.86	242.96		242.97	0.007657	0.35	1.29	25.01	0.49
Reach 6	808.88	5-year	0.78	242.86	242.98		242.99	0.007618	0.42	1.86	27.10	0.51
Reach 6	808.88	10-year	1.01	242.86	243.00		243.01	0.007689	0.43	2.34	32.61	0.52
Reach 6	808.88	25-year	1.33	242.86	243.01		243.02	0.007655	0.46	2.88	36.50	0.52
Reach 6	808.88	50-year	1.57	242.86	243.02		243.03	0.009472	0.52	3.01	37.00	0.58
Reach 6	808.88	100-year	1.82	242.86	243.03		243.04	0.008780	0.53	3.41	38.50	0.57
Reach 6	808.88	Regional	3.50	242.86	243.08		243.10	0.008196	0.64	5.48	44.61	0.58
Reach 6	744.83	2-year	0.45	241.99	242.07	242.07	242.10	0.031999	0.72	0.63	11.90	1.00
Reach 6	744.83	5-year	0.78	241.99	242.10	242.10	242.13	0.030996	0.85	0.91	13.23	1.03
Reach 6	744.83	10-year	1.01	241.99	242.11	242.11	242.15	0.029977	0.92	1.10	13.81	1.04
Reach 6	744.83	25-year	1.33	241.99	242.13	242.13	242.17	0.029935	0.88	1.52	20.35	1.02
Reach 6	744.83	50-year	1.57	241.99	242.15	242.14	242.19	0.020490	0.81	1.93	21.73	0.87
Reach 6	744.83	100-year	1.82	241.99	242.16	242.15	242.20	0.022963	0.89	2.04	21.84	0.93
Reach 6	744.83	Regional	3.50	241.99	242.20	242.20	242.27	0.024194	1.16	3.02	22.71	1.01
Reach 6	688	2-year	0.45	241.16	241.30		241.31	0.003942	0.37	1.22	13.28	0.38
Reach 6	688	5-year	0.78	241.16	241.34		241.35	0.004071	0.43	1.81	15.93	0.41
Reach 6	688	10-year	1.01	241.16	241.36		241.37	0.004880	0.50	2.05	16.51	0.45
Reach 6	688	25-year	1.33	241.16	241.39		241.40	0.004103	0.51	2.59	17.48	0.42
Reach 6	688	50-year	1.57	241.16	241.37		241.39	0.010179	0.73	2.15	16.75	0.65
Reach 6	688	100-year	1.82	241.16	241.38		241.41	0.009276	0.75	2.44	17.23	0.63
Reach 6	688	Regional	3.50	241.16	241.47		241.51	0.007795	0.88	3.96	19.09	0.62
Reach 8	25105	2-year	0.27	245.72	245.81	245.81	245.84	0.028317	0.73	0.37	6.32	0.96
Reach 8	25105	5-year	0.49	245.72	245.84	245.84	245.88	0.027218	0.86	0.57	7.25	0.98
Reach 8	25105	10-year	0.64	245.72	245.85	245.85	245.90	0.026029	0.92	0.70	7.79	0.98
Reach 8	25105	25-year	0.84	245.72	245.87	245.87	245.92	0.024893	0.98	0.86	8.44	0.98
Reach 8	25105	50-year	1.00	245.72	245.89	245.89	245.94	0.024488	1.02	0.97	8.88	0.99
Reach 8	25105	100-year	1.16	245.72	245.90	245.90	245.96	0.023626	1.05	1.10	9.32	0.98
Reach 8	25105	Regional	2.05	245.72	245.96	245.96	246.03	0.021401	1.20	1.71	11.25	0.98
Reach 8	25101	2-year	0.27	245.22	245.32		245.33	0.007296	0.43	0.64	8.66	0.50
Reach 8	25101	5-year	0.49	245.22	245.36		245.37	0.007517	0.52	0.95	9.84	0.54
Reach 8	25101	10-year	0.64	245.22	245.37		245.39	0.007694	0.57	1.13	10.48	0.55
Reach 8	25101	25-year	0.84	245.22	245.39		245.41	0.007895	0.62	1.36	11.23	0.57
Reach 8	25101	50-year	1.00	245.22	245.41		245.43	0.008009	0.65	1.52	11.74	0.58
Reach 8	25101	100-year	1.16	245.22	245.42		245.45	0.008189	0.69	1.68	12.21	0.59
Reach 8	25101	Regional	2.05	245.22	245.48		245.52	0.008769	0.83	2.48	14.47	0.64
Reach 8	25005	2-year	0.27	244.65	244.74	244.74	244.77	0.031431	0.73	0.37	6.83	1.00
Reach 8	25005	5-year	0.49	244.65	244.77	244.77	244.80	0.030031	0.79	0.62	9.67	1.00
Reach 8	25005	10-year	0.64	244.65	244.79	244.79	244.82	0.029133	0.84	0.76	10.51	1.00
Reach 8	25005	25-year	0.84	244.65	244.80	244.80	244.84	0.028213	0.90	0.93	11.50	1.01
Reach 8	25005	50-year	1.00	244.65	244.81	244.81	244.86	0.027961	0.95	1.05	11.96	1.02

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 8	25005	100-year	1.16	244.65	244.82	244.82	244.87	0.027045	0.98	1.18	12.29	1.01
Reach 8	25005	Regional	2.05	244.65	244.87	244.87	244.94	0.024351	1.14	1.80	13.82	1.01
Reach 8	24932.1	2-year	0.27	244.02	244.13	244.10	244.14	0.006561	0.37	0.75	11.87	0.47
Reach 8	24932.1	5-year	0.49	244.02	244.16	244.12	244.17	0.008020	0.47	1.05	13.26	0.53
Reach 8	24932.1	10-year	0.64	244.02	244.17	244.14	244.18	0.008784	0.53	1.21	13.66	0.57
Reach 8	24932.1	25-year	0.84	244.02	244.19	244.15	244.20	0.007777	0.56	1.50	14.36	0.55
Reach 8	24932.1	50-year	1.00	244.02	244.20	244.16	244.22	0.008843	0.62	1.60	14.63	0.60
Reach 8	24932.1	100-year	1.16	244.02	244.21	244.17	244.23	0.008967	0.66	1.75	15.12	0.61
Reach 8	24932.1	Regional	2.05	244.02	244.25	244.21	244.29	0.009263	0.84	2.52	17.46	0.65
Reach 8	24932	2-year	0.27	243.60	243.65	243.65	243.67	0.037762	0.55	0.49	15.69	1.00
Reach 8	24932	5-year	0.49	243.60	243.67	243.67	243.69	0.025902	0.62	0.80	17.02	0.89
Reach 8	24932	10-year	0.64	243.60	243.68	243.68	243.70	0.022583	0.66	0.99	17.40	0.86
Reach 8	24932	25-year	0.84	243.60	243.69	243.69	243.72	0.029207	0.79	1.08	17.57	0.99
Reach 8	24932	50-year	1.00	243.60	243.70	243.70	243.73	0.022918	0.79	1.30	17.97	0.90
Reach 8	24932	100-year	1.16	243.60	243.71	243.70	243.74	0.022718	0.83	1.43	18.21	0.91
Reach 8	24932	Regional	2.05	243.60	243.74	243.74	243.80	0.022360	1.04	2.08	19.33	0.96
Reach 8	24406	2-year	0.27	243.08	243.20	243.17	243.20	0.005395	0.32	0.92	17.23	0.42
Reach 8	24406	5-year	0.49	243.08	243.22	243.19	243.23	0.005606	0.40	1.33	18.39	0.45
Reach 8	24406	10-year	0.64	243.08	243.23	243.20	243.24	0.006807	0.47	1.49	18.81	0.50
Reach 8	24406	25-year	0.84	243.08	243.25		243.26	0.005906	0.50	1.88	20.12	0.48
Reach 8	24406	50-year	1.00	243.08	243.25	243.21	243.27	0.006642	0.56	2.02	20.60	0.52
Reach 8	24406	100-year	1.16	243.08	243.27	243.22	243.28	0.006636	0.59	2.24	21.16	0.53
Reach 8	24406	Regional	2.05	243.08	243.31		243.34	0.006577	0.73	3.34	23.35	0.55
Reach 8	24152	2-year	0.27	242.40	242.47	242.47	242.49	0.036101	0.59	0.47	13.21	0.99
Reach 8	24152	5-year	0.49	242.40	242.49	242.49	242.52	0.032790	0.68	0.72	15.07	0.99
Reach 8	24152	10-year	0.64	242.40	242.51	242.50	242.53	0.021919	0.64	1.01	17.21	0.84
Reach 8	24152	25-year	0.84	242.40	242.51	242.51	242.54	0.030024	0.77	1.09	17.51	0.99
Reach 8	24152	50-year	1.00	242.40	242.53	242.52	242.56	0.023122	0.74	1.35	19.38	0.89
Reach 8	24152	100-year	1.16	242.40	242.54	242.53	242.57	0.023778	0.79	1.47	19.56	0.91
Reach 8	24152	Regional	2.05	242.40	242.57	242.56	242.62	0.024737	0.98	2.09	20.48	0.98
Reach 8	24151	2-year	0.27	241.22	241.32	241.31	241.34	0.013445	0.52	0.53	8.58	0.66
Reach 8	24151	5-year	0.49	241.22	241.35		241.37	0.015079	0.65	0.75	9.34	0.74
Reach 8	24151	10-year	0.64	241.22	241.34	241.34	241.38	0.028946	0.89	0.72	9.26	1.01
Reach 8	24151	25-year	0.84	241.22	241.38	241.36	241.41	0.016871	0.78	1.08	11.15	0.80
Reach 8	24151	50-year	1.00	241.22	241.37	241.37	241.42	0.026869	0.97	1.03	10.86	1.01
Reach 8	24151	100-year	1.16	241.22	241.39	241.39	241.44	0.025850	0.99	1.17	11.65	1.00
Reach 8	24151	Regional	2.05	241.22	241.43	241.43	241.50	0.023919	1.17	1.76	12.90	1.01
Reach 6-Lower	629	2-year	0.62	240.55	240.71	240.71	240.74	0.026835	0.85	0.73	9.49	0.97
Reach 6-Lower	629	5-year	1.09	240.55	240.75	240.74	240.79	0.024536	0.91	1.20	13.06	0.96
Reach 6-Lower	629	10-year	1.46	240.55	240.78		240.82	0.017138	0.84	1.73	16.09	0.82
Reach 6-Lower	629	25-year	1.96	240.55	240.80	240.79	240.85	0.021750	1.00	1.96	16.90	0.94
Reach 6-Lower	629	50-year	2.37	240.55	240.87	240.81	240.90	0.007522	0.74	3.21	19.69	0.58
Reach 6-Lower	629	100-year	2.82	240.55	240.89	240.83	240.92	0.007768	0.79	3.58	20.43	0.60
Reach 6-Lower	629	Regional	5.55	240.55	240.97	240.91	241.03	0.008322	1.01	5.49	22.65	0.66
Reach 6-Lower	581.37	2-year	0.62	240.21	240.41		240.42	0.003387	0.34	1.82	19.70	0.36
Reach 6-Lower	581.37	5-year	1.09	240.21	240.45		240.46	0.003584	0.41	2.65	22.43	0.38
Reach 6-Lower	581.37	10-year	1.46	240.21	240.46		240.48	0.004507	0.49	2.97	23.14	0.44
Reach 6-Lower	581.37	25-year	1.96	240.21	240.50	240.42	240.51	0.003835	0.52	3.76	24.04	0.42
Reach 6-Lower	581.37	50-year	2.37	240.21	240.47	240.43	240.50	0.011557	0.79	3.00	23.18	0.70
Reach 6-Lower	581.37	100-year	2.82	240.21	240.48	240.45	240.52	0.011173	0.84	3.38	23.61	0.70
Reach 6-Lower	581.37	Regional	5.55	240.21	240.56	240.52	240.62	0.010943	1.08	5.20	25.60	0.74
Reach 6-Lower	522.55	2-year	0.62	239.81	239.92	239.92	239.95	0.036122	0.67	0.93	21.43	1.03
Reach 6-Lower	522.55	5-year	1.09	239.81	239.95	239.95	239.98	0.032541	0.75	1.45	25.89	1.02
Reach 6-Lower	522.55	10-year	1.46	239.81	239.97	239.96	239.99	0.018855	0.68	2.14	29.58	0.81
Reach 6-Lower	522.55	25-year	1.96	239.81	239.97	239.97	240.01	0.030038	0.88	2.22	29.67	1.03
Reach 6-Lower	522.55	50-year	2.37	239.81	240.04	239.98	240.06	0.005015	0.54	4.39	32.30	0.46
Reach 6-Lower	522.55	100-year	2.82	239.81	240.06	240.00	240.07	0.005178	0.58	4.84	32.72	0.48
Reach 6-Lower	522.55	Regional	5.55	239.81	240.13	240.05	240.16	0.005546	0.78	7.24	34.91	0.53
Reach 6-Lower	379.80	2-year	0.62	238.57	238.69	238.65	238.70	0.004155	0.33	1.90	25.57	0.38
Reach 6-Lower	379.80	5-year	1.09	238.57	238.72		238.73	0.004409	0.41	2.67	26.73	0.41
Reach 6-Lower	379.80	10-year	1.46	238.57	238.73		238.74	0.005791	0.49	2.94	27.13	0.48
Reach 6-Lower	379.80	25-year	1.96	238.57	238.78		238.79	0.003369	0.46	4.23	28.65	0.38
Reach 6-Lower	379.80	50-year	2.37	238.57	238.71	238.71	238.76	0.028291	0.98	2.42	26.36	1.03
Reach 6-Lower	379.80	100-year	2.82	238.57	238.73	238.73	238.78	0.026219	1.02	2.77	26.87	1.01
Reach 6-Lower	379.80	Regional	5.55	238.57	238.79	238.79	238.86	0.022455	1.24	4.48	28.74	1.00
Reach 6-Lower	289.21	2-year	0.62	237.90	238.06	238.05	238.08	0.015753	0.53	1.17	20.54	0.71
Reach 6-Lower	289.21	5-year	1.09	237.90	238.09	238.07	238.11	0.014189	0.63	1.73	21.68	0.71

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 6-Lower	289.21	10-year	1.46	237.90	238.12		238.14	0.008793	0.59	2.45	23.54	0.59
Reach 6-Lower	289.21	25-year	1.96	237.90	238.10	238.10	238.15	0.028244	0.97	2.02	22.21	1.03
Reach 6-Lower	289.21	50-year	2.37	237.90	238.58		238.58	0.000057	0.14	18.33	41.66	0.06
Reach 6-Lower	289.21	100-year	2.82	237.90	238.63		238.64	0.000057	0.15	20.66	43.44	0.06
Reach 6-Lower	289.21	Regional	5.55	237.90	238.76		238.77	0.000108	0.24	26.48	46.01	0.09
Reach 6-Lower	217.29	2-year	0.62	236.91	237.07	237.05	237.09	0.012387	0.65	0.95	10.29	0.68
Reach 6-Lower	217.29	5-year	1.09	236.91	237.12	237.08	237.15	0.013033	0.72	1.50	14.34	0.71
Reach 6-Lower	217.29	10-year	1.46	236.91	237.11	237.11	237.17	0.024106	1.04	1.40	12.27	0.99
Reach 6-Lower	217.29	25-year	1.96	236.91	238.05		238.05	0.000008	0.08	32.32	46.77	0.03
Reach 6-Lower	217.29	50-year	2.37	236.91	238.58		238.58	0.000002	0.06	60.04	57.73	0.01
Reach 6-Lower	217.29	100-year	2.82	236.91	238.64		238.64	0.000003	0.07	63.34	63.03	0.02
Reach 6-Lower	217.29	Regional	5.55	236.91	238.76		238.77	0.000008	0.12	71.95	69.87	0.03
Reach 6-Lower	175.22	2-year	0.62	235.75	235.87	235.87	235.90	0.029128	0.81	0.76	11.24	0.99
Reach 6-Lower	175.22	5-year	1.09	235.75	235.90	235.90	235.95	0.027440	0.96	1.14	12.41	1.01
Reach 6-Lower	175.22	10-year	1.46	235.75	236.64		236.64	0.000019	0.11	16.08	28.51	0.04
Reach 6-Lower	175.22	25-year	1.96	235.75	238.05		238.05	0.000001	0.04	73.62	52.42	0.01
Reach 6-Lower	175.22	50-year	2.37	235.75	238.58		238.58	0.000000	0.04	104.25	64.75	0.01
Reach 6-Lower	175.22	100-year	2.82	235.75	238.64		238.64	0.000001	0.04	107.87	67.80	0.01
Reach 6-Lower	175.22	Regional	5.55	235.75	238.76		238.76	0.000002	0.08	116.93	71.69	0.01
Reach 6-Lower	75.62	2-year	0.62	234.50	234.78		234.79	0.000456	0.20	3.13	17.66	0.15
Reach 6-Lower	75.62	5-year	1.09	234.50	235.87		235.87	0.000002	0.04	34.84	41.37	0.01
Reach 6-Lower	75.62	10-year	1.46	234.50	236.64		236.64	0.000000	0.03	72.80	57.10	0.01
Reach 6-Lower	75.62	25-year	1.96	234.50	238.05		238.05	0.000000	0.02	172.61	87.41	0.00
Reach 6-Lower	75.62	50-year	2.37	234.50	238.58		238.58	0.000000	0.02	222.42	102.97	0.00
Reach 6-Lower	75.62	100-year	2.82	234.50	238.64		238.64	0.000000	0.02	228.15	106.20	0.00
Reach 6-Lower	75.62	Regional	5.55	234.50	238.76		238.76	0.000000	0.04	242.38	114.92	0.01
Reach 6-Lower	17.67	2-year	0.62	234.42	234.78		234.78	0.000055	0.08	7.61	31.60	0.05
Reach 6-Lower	17.67	5-year	1.09	234.42	235.87		235.87	0.000001	0.02	52.88	51.43	0.01
Reach 6-Lower	17.67	10-year	1.46	234.42	236.64		236.64	0.000000	0.02	97.50	66.33	0.00
Reach 6-Lower	17.67	25-year	1.96	234.42	238.05		238.05	0.000000	0.01	218.18	108.58	0.00
Reach 6-Lower	17.67	50-year	2.37	234.42	238.58		238.58	0.000000	0.01	280.33	126.24	0.00
Reach 6-Lower	17.67	100-year	2.82	234.42	238.64		238.64	0.000000	0.02	287.28	128.56	0.00
Reach 6-Lower	17.67	Regional	5.55	234.42	238.76		238.76	0.000000	0.03	304.61	141.21	0.00
Reach 5	2480.223	2-year	0.62	246.13	246.31	246.26	246.33	0.006467	0.52	1.19	11.15	0.51
Reach 5	2480.223	5-year	1.08	246.13	246.36	246.30	246.38	0.006897	0.62	1.75	13.18	0.54
Reach 5	2480.223	10-year	1.43	246.13	246.39	246.33	246.41	0.007207	0.68	2.12	15.25	0.56
Reach 5	2480.223	25-year	1.90	246.13	246.42	246.35	246.44	0.007554	0.74	2.63	19.31	0.58
Reach 5	2480.223	50-year	2.26	246.13	246.43	246.37	246.46	0.007790	0.79	3.01	26.84	0.60
Reach 5	2480.223	100-year	2.63	246.13	246.45	246.39	246.48	0.008010	0.84	3.44	29.79	0.62
Reach 5	2480.223	Regional	5.86	246.13	246.54	246.50	246.60	0.008348	1.13	6.58	39.60	0.68
Reach 5	2413.965	2-year	0.62	245.66	245.78		245.79	0.010483	0.51	1.22	16.88	0.60
Reach 5	2413.965	5-year	1.08	245.66	245.81		245.83	0.010158	0.58	1.87	21.51	0.62
Reach 5	2413.965	10-year	1.43	245.66	245.83		245.85	0.010017	0.64	2.26	22.74	0.63
Reach 5	2413.965	25-year	1.90	245.66	245.85		245.87	0.009755	0.71	2.75	24.22	0.64
Reach 5	2413.965	50-year	2.26	245.66	245.86		245.89	0.009569	0.75	3.13	25.28	0.64
Reach 5	2413.965	100-year	2.63	245.66	245.88		245.91	0.009255	0.78	3.52	26.34	0.64
Reach 5	2413.965	Regional	5.86	245.66	245.97		246.02	0.008942	1.01	6.39	33.50	0.67
Reach 5	2353.877	2-year	0.62	245.34	245.47		245.48	0.003018	0.28	2.21	29.43	0.33
Reach 5	2353.877	5-year	1.08	245.34	245.51		245.51	0.003133	0.34	3.20	35.66	0.35
Reach 5	2353.877	10-year	1.43	245.34	245.52		245.53	0.003217	0.38	3.90	40.50	0.36
Reach 5	2353.877	25-year	1.90	245.34	245.54		245.55	0.003304	0.42	4.72	42.11	0.37
Reach 5	2353.877	50-year	2.26	245.34	245.56		245.57	0.003390	0.45	5.29	43.18	0.38
Reach 5	2353.877	100-year	2.63	245.34	245.57		245.58	0.003527	0.48	5.80	44.14	0.40
Reach 5	2353.877	Regional	5.86	245.34	245.65		245.67	0.004017	0.68	9.56	49.64	0.45
Reach 5	2307.004	2-year	0.62	245.12	245.24		245.24	0.010003	0.38	1.61	32.60	0.55
Reach 5	2307.004	5-year	1.08	245.12	245.26		245.27	0.009994	0.46	2.36	36.51	0.58
Reach 5	2307.004	10-year	1.43	245.12	245.27		245.28	0.010462	0.52	2.77	37.14	0.61
Reach 5	2307.004	25-year	1.90	245.12	245.28		245.30	0.010537	0.58	3.30	37.95	0.62
Reach 5	2307.004	50-year	2.26	245.12	245.29		245.31	0.009896	0.60	3.76	38.63	0.62
Reach 5	2307.004	100-year	2.63	245.12	245.31		245.33	0.009488	0.63	4.19	39.26	0.61
Reach 5	2307.004	Regional	5.86	245.12	245.39	245.33	245.42	0.007550	0.79	7.69	49.11	0.59
Reach 5	2247.605	2-year	0.62	244.45	244.56	244.54	244.57	0.012824	0.56	1.22	20.74	0.67
Reach 5	2247.605	5-year	1.08	244.45	244.59		244.61	0.012480	0.67	1.97	29.25	0.69
Reach 5	2247.605	10-year	1.43	244.45	244.61		244.63	0.011684	0.70	2.56	31.51	0.68
Reach 5	2247.605	25-year	1.90	244.45	244.62		244.65	0.011315	0.77	3.17	32.49	0.69
Reach 5	2247.605	50-year	2.26	244.45	244.63		244.66	0.012087	0.84	3.49	32.91	0.72
Reach 5	2247.605	100-year	2.63	244.45	244.64		244.68	0.012530	0.89	3.83	33.33	0.74
Reach 5	2247.605	Regional	5.86	244.45	244.71	244.70	244.78	0.016365	1.30	6.19	39.46	0.90

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 5	2193.192	2-year	0.62	243.62	243.77	243.75	243.79	0.015747	0.54	1.15	19.85	0.71
Reach 5	2193.192	5-year	1.08	243.62	243.80	243.78	243.82	0.016254	0.58	1.87	29.36	0.73
Reach 5	2193.192	10-year	1.43	243.62	243.81	243.80	243.83	0.017881	0.64	2.23	32.45	0.78
Reach 5	2193.192	25-year	1.90	243.62	243.83	243.81	243.85	0.018844	0.70	2.72	36.20	0.81
Reach 5	2193.192	50-year	2.26	243.62	243.84	243.83	243.86	0.017345	0.72	3.15	37.86	0.79
Reach 5	2193.192	100-year	2.63	243.62	243.85	243.84	243.88	0.016619	0.74	3.57	39.87	0.79
Reach 5	2193.192	Regional	5.86	243.62	243.92	243.89	243.96	0.013000	0.88	6.68	48.74	0.75
Reach 5	2136.188	2-year	0.62	242.87	243.11		243.12	0.009243	0.47	1.32	18.69	0.56
Reach 5	2136.188	5-year	1.08	242.87	243.14	243.10	243.15	0.008901	0.56	1.92	20.13	0.58
Reach 5	2136.188	10-year	1.43	242.87	243.16	243.12	243.18	0.008121	0.61	2.37	20.72	0.57
Reach 5	2136.188	25-year	1.90	242.87	243.19	243.14	243.21	0.007618	0.64	3.02	26.65	0.57
Reach 5	2136.188	50-year	2.26	242.87	243.20	243.15	243.22	0.007959	0.68	3.42	29.20	0.58
Reach 5	2136.188	100-year	2.63	242.87	243.21	243.16	243.24	0.008141	0.72	3.79	30.24	0.60
Reach 5	2136.188	Regional	5.86	242.87	243.29		243.34	0.009196	0.99	6.56	39.01	0.68
Reach 5	2075.723	2-year	0.62	242.46	242.63		242.64	0.006723	0.47	1.48	20.67	0.50
Reach 5	2075.723	5-year	1.08	242.46	242.66		242.68	0.006961	0.57	2.34	28.37	0.53
Reach 5	2075.723	10-year	1.43	242.46	242.68		242.70	0.007780	0.65	2.80	30.99	0.57
Reach 5	2075.723	25-year	1.90	242.46	242.70		242.72	0.008477	0.72	3.43	33.61	0.61
Reach 5	2075.723	50-year	2.26	242.46	242.71		242.74	0.008085	0.75	3.97	34.65	0.60
Reach 5	2075.723	100-year	2.63	242.46	242.73		242.75	0.007952	0.79	4.46	35.57	0.61
Reach 5	2075.723	Regional	5.86	242.46	242.83		242.87	0.006723	0.99	8.42	40.95	0.60
Reach 5	2020.589	2-year	0.62	241.73	241.92	241.92	241.97	0.025699	1.03	0.60	5.61	1.01
Reach 5	2020.589	5-year	1.08	241.73	241.97	241.97	242.04	0.021377	1.12	1.02	9.62	0.96
Reach 5	2020.589	10-year	1.43	241.73	242.01	242.01	242.07	0.016851	1.15	1.44	15.22	0.88
Reach 5	2020.589	25-year	1.90	241.73	242.04	242.04	242.11	0.014184	1.20	2.05	18.38	0.84
Reach 5	2020.589	50-year	2.26	241.73	242.06	242.06	242.13	0.014547	1.28	2.36	18.80	0.86
Reach 5	2020.589	100-year	2.63	241.73	242.08	242.08	242.16	0.014600	1.34	2.68	19.23	0.87
Reach 5	2020.589	Regional	5.86	241.73	242.18	242.18	242.31	0.015604	1.78	4.91	21.95	0.96
Reach 5	1969.241	2-year	0.62	241.14	241.36	241.30	241.37	0.005949	0.55	1.12	8.97	0.50
Reach 5	1969.241	5-year	1.08	241.14	241.41	241.34	241.43	0.006877	0.66	1.65	11.26	0.55
Reach 5	1969.241	10-year	1.43	241.14	241.44	241.37	241.47	0.006954	0.70	2.05	13.04	0.56
Reach 5	1969.241	25-year	1.90	241.14	241.47	241.41	241.50	0.007734	0.80	2.41	16.93	0.60
Reach 5	1969.241	50-year	2.26	241.14	241.50	241.43	241.53	0.007068	0.82	2.89	18.75	0.58
Reach 5	1969.241	100-year	2.63	241.14	241.51	241.45	241.55	0.007217	0.87	3.21	19.60	0.60
Reach 5	1969.241	Regional	5.86	241.14	241.62	241.57	241.69	0.008189	1.22	5.60	23.67	0.68
Reach 5	1907.204	2-year	0.62	240.49	240.64	240.64	240.67	0.030147	0.77	0.80	13.01	0.99
Reach 5	1907.204	5-year	1.08	240.49	240.67	240.66	240.71	0.024224	0.86	1.26	14.90	0.94
Reach 5	1907.204	10-year	1.43	240.49	240.69	240.69	240.73	0.024934	0.91	1.58	17.50	0.96
Reach 5	1907.204	25-year	1.90	240.49	240.71	240.70	240.76	0.021137	0.94	2.02	18.76	0.91
Reach 5	1907.204	50-year	2.26	240.49	240.72	240.72	240.78	0.025804	1.06	2.13	19.22	1.02
Reach 5	1907.204	100-year	2.63	240.49	240.73	240.73	240.79	0.024912	1.10	2.40	20.15	1.01
Reach 5	1907.204	Regional	5.86	240.49	240.82	240.82	240.92	0.021337	1.41	4.19	21.73	1.01
Reach 5	1865.536	2-year	0.62	239.99	240.20		240.20	0.004845	0.35	1.80	25.47	0.41
Reach 5	1865.536	5-year	1.08	239.99	240.22		240.23	0.005674	0.44	2.51	28.25	0.46
Reach 5	1865.536	10-year	1.43	239.99	240.24		240.25	0.005650	0.49	3.00	29.08	0.47
Reach 5	1865.536	25-year	1.90	239.99	240.25		240.27	0.006380	0.56	3.46	29.75	0.51
Reach 5	1865.536	50-year	2.26	239.99	240.28		240.30	0.004838	0.55	4.24	30.84	0.46
Reach 5	1865.536	100-year	2.63	239.99	240.29		240.31	0.004972	0.59	4.64	31.31	0.47
Reach 5	1865.536	Regional	5.86	239.99	240.39		240.42	0.004914	0.80	7.71	32.40	0.51
Reach 5	1835.732	2-year	0.62	239.62	239.83	239.83	239.91	0.024057	1.21	0.51	3.74	1.02
Reach 5	1835.732	5-year	1.08	239.62	239.92	239.92	239.96	0.014421	1.00	1.51	18.90	0.80
Reach 5	1835.732	10-year	1.43	239.62	239.94	239.94	239.99	0.013473	1.07	2.02	21.73	0.80
Reach 5	1835.732	25-year	1.90	239.62	239.98	239.96	240.02	0.010042	1.05	2.92	24.54	0.71
Reach 5	1835.732	50-year	2.26	239.62	239.97	239.97	240.04	0.016218	1.31	2.77	24.08	0.90
Reach 5	1835.732	100-year	2.63	239.62	239.99	239.99	240.06	0.015187	1.34	3.23	25.43	0.88
Reach 5	1835.732	Regional	5.86	239.62	240.09	240.09	240.18	0.013806	1.62	6.64	36.11	0.89
Reach 5	1759.197	2-year	0.62	239.03	239.17		239.18	0.004397	0.39	1.71	21.74	0.41
Reach 5	1759.197	5-year	1.08	239.03	239.20		239.21	0.005354	0.50	2.37	23.37	0.47
Reach 5	1759.197	10-year	1.43	239.03	239.21		239.23	0.006960	0.60	2.64	24.56	0.54
Reach 5	1759.197	25-year	1.90	239.03	239.22	239.18	239.24	0.010000	0.74	2.85	25.64	0.65
Reach 5	1759.197	50-year	2.26	239.03	239.29	239.20	239.30	0.003034	0.54	4.82	28.53	0.39
Reach 5	1759.197	100-year	2.63	239.03	239.31	239.21	239.32	0.003129	0.58	5.31	29.57	0.40
Reach 5	1759.197	Regional	5.86	239.03	239.40		239.43	0.004351	0.87	8.22	32.41	0.50
Reach 5	1684.856	2-year	0.62	238.60	238.75	238.72	238.76	0.008811	0.45	1.65	28.41	0.55
Reach 5	1684.856	5-year	1.08	238.60	238.78		238.79	0.006953	0.51	2.62	31.77	0.52
Reach 5	1684.856	10-year	1.43	238.60	238.81		238.82	0.005014	0.51	3.53	33.20	0.46
Reach 5	1684.856	25-year	1.90	238.60	238.84		238.85	0.003549	0.51	4.78	34.50	0.40

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 5	1684.856	50-year	2.26	238.60	238.78	238.78	238.83	0.026376	1.02	2.75	31.97	1.01
Reach 5	1684.856	100-year	2.63	238.60	238.79	238.79	238.84	0.025055	1.07	3.10	32.53	1.01
Reach 5	1684.856	Regional	5.86	238.60	238.89		238.95	0.012798	1.16	6.55	35.35	0.80
Reach 5	1614.867	2-year	0.62	237.96	238.33		238.34	0.005332	0.55	1.39	15.44	0.48
Reach 5	1614.867	5-year	1.08	237.96	238.37		238.39	0.006035	0.70	2.15	21.29	0.53
Reach 5	1614.867	10-year	1.43	237.96	238.37	238.34	238.41	0.009200	0.88	2.28	21.82	0.66
Reach 5	1614.867	25-year	1.90	237.96	238.37	238.37	238.43	0.017907	1.21	2.18	21.42	0.91
Reach 5	1614.867	50-year	2.26	237.96	238.58		238.58	0.000981	0.47	8.15	38.57	0.24
Reach 5	1614.867	100-year	2.63	237.96	238.63		238.64	0.000757	0.45	10.43	41.90	0.22
Reach 5	1614.867	Regional	5.86	237.96	238.76		238.77	0.001127	0.66	15.91	43.32	0.28
Reach 5	1534.323	2-year	0.62	237.43	237.52	237.52	237.54	0.036973	0.68	0.90	20.52	1.04
Reach 5	1534.323	5-year	1.08	237.43	237.54	237.54	237.57	0.030527	0.76	1.43	24.23	0.99
Reach 5	1534.323	10-year	1.43	237.43	237.57		237.59	0.014630	0.65	2.22	27.96	0.73
Reach 5	1534.323	25-year	1.90	237.43	238.05		238.05	0.000028	0.10	20.40	41.58	0.04
Reach 5	1534.323	50-year	2.26	237.43	238.58		238.58	0.000004	0.06	44.25	48.81	0.02
Reach 5	1534.323	100-year	2.63	237.43	238.64		238.64	0.000004	0.06	46.96	50.04	0.02
Reach 5	1534.323	Regional	5.86	237.43	238.76		238.77	0.000015	0.13	53.68	53.70	0.04
Reach 5	1499.019	2-year	0.62	236.66	236.81	236.79	236.83	0.010135	0.53	1.18	15.56	0.60
Reach 5	1499.019	5-year	1.08	236.66	236.85	236.82	236.87	0.010649	0.65	1.69	18.30	0.65
Reach 5	1499.019	10-year	1.43	236.66	236.83	236.83	236.88	0.026830	0.97	1.50	16.99	1.01
Reach 5	1499.019	25-year	1.90	236.66	238.05		238.05	0.000004	0.06	42.42	44.34	0.02
Reach 5	1499.019	50-year	2.26	236.66	238.58		238.58	0.000001	0.05	68.41	53.26	0.01
Reach 5	1499.019	100-year	2.63	236.66	238.64		238.64	0.000002	0.06	71.35	54.22	0.01
Reach 5	1499.019	Regional	5.86	236.66	238.76		238.77	0.000006	0.12	78.70	59.98	0.03
Reach 5	1374.339	2-year	0.62	235.87	235.97	235.97	236.00	0.030517	0.82	0.75	11.22	1.02
Reach 5	1374.339	5-year	1.08	235.87	236.01	236.01	236.05	0.027535	0.91	1.19	14.20	1.00
Reach 5	1374.339	10-year	1.43	235.87	236.64		236.64	0.000015	0.09	20.54	39.73	0.03
Reach 5	1374.339	25-year	1.90	235.87	238.05		238.05	0.000000	0.03	94.76	64.48	0.01
Reach 5	1374.339	50-year	2.26	235.87	238.58		238.58	0.000000	0.03	132.48	80.28	0.01
Reach 5	1374.339	100-year	2.63	235.87	238.64		238.64	0.000000	0.03	136.92	82.56	0.01
Reach 5	1374.339	Regional	5.86	235.87	238.76		238.76	0.000001	0.06	148.39	93.49	0.01
Reach 5	1345.871	2-year	0.62	234.53	234.78		234.78	0.002164	0.36	1.70	11.93	0.31
Reach 5	1345.871	5-year	1.08	234.53	235.87		235.87	0.000003	0.05	23.73	26.39	0.02
Reach 5	1345.871	10-year	1.43	234.53	236.64		236.64	0.000001	0.04	47.44	34.70	0.01
Reach 5	1345.871	25-year	1.90	234.53	238.05		238.05	0.000000	0.02	108.48	51.16	0.00
Reach 5	1345.871	50-year	2.26	234.53	238.58		238.58	0.000000	0.02	139.00	64.88	0.00
Reach 5	1345.871	100-year	2.63	234.53	238.64		238.64	0.000000	0.03	142.60	66.96	0.00
Reach 5	1345.871	Regional	5.86	234.53	238.76		238.76	0.000001	0.06	151.75	75.68	0.01
Reach 5	1281.581	2-year	0.62	234.38	234.78		234.78	0.000022	0.06	10.62	37.70	0.03
Reach 5	1281.581	5-year	1.08	234.38	235.87		235.87	0.000000	0.02	62.65	56.33	0.01
Reach 5	1281.581	10-year	1.43	234.38	236.64		236.64	0.000000	0.02	110.10	68.98	0.00
Reach 5	1281.581	25-year	1.90	234.38	238.05		238.05	0.000000	0.01	233.54	111.74	0.00
Reach 5	1281.581	50-year	2.26	234.38	238.58		238.58	0.000000	0.01	297.80	129.77	0.00
Reach 5	1281.581	100-year	2.63	234.38	238.64		238.64	0.000000	0.01	304.99	133.42	0.00
Reach 5	1281.581	Regional	5.86	234.38	238.76		238.76	0.000000	0.03	323.11	147.84	0.00
Reach 4	1254.43	2-year	1.31	234.45	234.78		234.78	0.000050	0.08	16.40	66.68	0.05
Reach 4	1254.43	5-year	2.32	234.45	235.87		235.87	0.000001	0.03	98.60	84.47	0.01
Reach 4	1254.43	10-year	3.08	234.45	236.64		236.64	0.000000	0.02	169.98	101.11	0.00
Reach 4	1254.43	25-year	4.14	234.45	238.05		238.05	0.000000	0.02	338.22	133.80	0.00
Reach 4	1254.43	50-year	5.00	234.45	238.58		238.58	0.000000	0.02	411.74	142.97	0.00
Reach 4	1254.43	100-year	5.90	234.45	238.64		238.64	0.000000	0.02	419.59	145.22	0.00
Reach 4	1254.43	Regional	12.61	234.45	238.76		238.76	0.000000	0.04	439.22	161.63	0.01
Reach 4	1190	2-year	1.31	234.40	234.66	234.66	234.76	0.021097	1.37	0.95	57.24	1.00
Reach 4	1190	5-year	2.32	234.40	235.86	234.75	235.87	0.000088	0.33	6.95	74.56	0.09
Reach 4	1190	10-year	3.08	234.40	236.63	234.81	236.64	0.000036	0.29	10.79	88.08	0.06
Reach 4	1190	25-year	4.14	234.40	238.05	234.89	238.05	0.000012	0.23	17.85	107.40	0.04
Reach 4	1190	50-year	5.00	234.40	238.58	234.94	238.58	0.000000	0.02	351.55	120.67	0.00
Reach 4	1190	100-year	5.90	234.40	238.64	235.00	238.64	0.000000	0.02	358.23	124.92	0.00
Reach 4	1190	Regional	12.61	234.40	238.76	235.34	238.76	0.000000	0.04	375.28	139.93	0.01
Reach 4	1180		Culvert									
Reach 4	1132	2-year	1.31	232.23	233.81	232.51	233.81	0.000022	0.18	7.45	46.34	0.05
Reach 4	1132	5-year	2.32	232.23	234.88	232.59	234.88	0.000011	0.18	12.81	58.57	0.04
Reach 4	1132	10-year	3.08	232.23	234.88	232.65	234.88	0.000020	0.24	12.81	58.56	0.05
Reach 4	1132	25-year	4.14	232.23	234.88	232.73	234.88	0.000037	0.32	12.80	58.55	0.06
Reach 4	1132	50-year	5.00	232.23	234.87	232.78	234.88	0.000053	0.39	12.79	58.54	0.08
Reach 4	1132	100-year	5.90	232.23	234.87	232.84	234.88	0.000075	0.46	12.78	58.52	0.09
Reach 4	1132	Regional	12.61	232.23	234.85	233.18	234.90	0.000354	1.00	12.65	58.32	0.20

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	1125	2-year	1.31	232.13	233.81		233.81	0.000000	0.02	55.85	43.31	0.01
Reach 4	1125	5-year	2.32	232.13	234.88		234.88	0.000000	0.02	107.34	55.88	0.00
Reach 4	1125	10-year	3.08	232.13	234.88		234.88	0.000000	0.03	107.34	55.88	0.01
Reach 4	1125	25-year	4.14	232.13	234.88		234.88	0.000001	0.04	107.34	55.88	0.01
Reach 4	1125	50-year	5.00	232.13	234.88		234.88	0.000001	0.05	107.34	55.88	0.01
Reach 4	1125	100-year	5.90	232.13	234.88		234.88	0.000001	0.06	107.34	55.88	0.01
Reach 4	1125	Regional	12.61	232.13	234.88		234.88	0.000006	0.13	107.36	55.88	0.03
Reach 4	1105.427	2-year	1.31	232.05	233.81		233.81	0.000001	0.03	53.65	41.49	0.01
Reach 4	1105.427	5-year	2.32	232.05	234.88		234.88	0.000000	0.03	105.02	55.81	0.01
Reach 4	1105.427	10-year	3.08	232.05	234.88		234.88	0.000000	0.04	105.02	55.81	0.01
Reach 4	1105.427	25-year	4.14	232.05	234.88		234.88	0.000001	0.05	105.02	55.81	0.01
Reach 4	1105.427	50-year	5.00	232.05	234.88		234.88	0.000001	0.06	105.02	55.81	0.01
Reach 4	1105.427	100-year	5.90	232.05	234.88		234.88	0.000002	0.07	105.02	55.81	0.01
Reach 4	1105.427	Regional	12.61	232.05	234.88		234.88	0.000008	0.16	105.02	55.81	0.03
Reach 4	1064.597	2-year	1.31	231.65	233.81		233.81	0.000000	0.02	72.72	48.66	0.01
Reach 4	1064.597	5-year	2.32	231.65	234.88		234.88	0.000000	0.02	130.48	61.62	0.00
Reach 4	1064.597	10-year	3.08	231.65	234.88		234.88	0.000000	0.03	130.48	61.62	0.01
Reach 4	1064.597	25-year	4.14	231.65	234.88		234.88	0.000001	0.04	130.48	61.62	0.01
Reach 4	1064.597	50-year	5.00	231.65	234.88		234.88	0.000001	0.05	130.48	61.62	0.01
Reach 4	1064.597	100-year	5.90	231.65	234.88		234.88	0.000001	0.06	130.48	61.62	0.01
Reach 4	1064.597	Regional	12.61	231.65	234.88		234.88	0.000005	0.13	130.48	61.62	0.02
Reach 4	1047.971	2-year	1.31	230.98	233.81		233.81	0.000000	0.01	110.70	60.89	0.00
Reach 4	1047.971	5-year	2.32	230.98	234.88		234.88	0.000000	0.02	183.60	79.11	0.00
Reach 4	1047.971	10-year	3.08	230.98	234.88		234.88	0.000000	0.02	183.60	79.11	0.00
Reach 4	1047.971	25-year	4.14	230.98	234.88		234.88	0.000000	0.03	183.60	79.11	0.01
Reach 4	1047.971	50-year	5.00	230.98	234.88		234.88	0.000000	0.04	183.60	79.11	0.01
Reach 4	1047.971	100-year	5.90	230.98	234.88		234.88	0.000000	0.04	183.60	79.11	0.01
Reach 4	1047.971	Regional	12.61	230.98	234.88		234.88	0.000002	0.09	183.61	79.11	0.02
Reach 4	1000.841	2-year	1.31	230.30	233.81		233.81	0.000000	0.02	124.65	61.92	0.00
Reach 4	1000.841	5-year	2.32	230.30	234.88		234.88	0.000000	0.02	200.03	82.87	0.00
Reach 4	1000.841	10-year	3.08	230.30	234.88		234.88	0.000000	0.03	200.03	82.87	0.00
Reach 4	1000.841	25-year	4.14	230.30	234.88		234.88	0.000000	0.03	200.03	82.87	0.01
Reach 4	1000.841	50-year	5.00	230.30	234.88		234.88	0.000000	0.04	200.03	82.87	0.01
Reach 4	1000.841	100-year	5.90	230.30	234.88		234.88	0.000000	0.05	200.03	82.87	0.01
Reach 4	1000.841	Regional	12.61	230.30	234.88		234.88	0.000002	0.11	200.03	82.87	0.02
Reach 4	961.311	2-year	1.31	229.94	233.81		233.81	0.000000	0.01	170.86	70.54	0.00
Reach 4	961.311	5-year	2.32	229.94	234.88		234.88	0.000000	0.01	266.38	115.07	0.00
Reach 4	961.311	10-year	3.08	229.94	234.88		234.88	0.000000	0.02	266.38	115.07	0.00
Reach 4	961.311	25-year	4.14	229.94	234.88		234.88	0.000000	0.03	266.38	115.07	0.00
Reach 4	961.311	50-year	5.00	229.94	234.88		234.88	0.000000	0.03	266.38	115.07	0.00
Reach 4	961.311	100-year	5.90	229.94	234.88		234.88	0.000000	0.04	266.38	115.07	0.01
Reach 4	961.311	Regional	12.61	229.94	234.88		234.88	0.000001	0.08	266.39	115.07	0.01
Reach 4	914	2-year	1.57	229.38	233.81		233.81	0.000000	0.01	320.99	108.24	0.00
Reach 4	914	5-year	2.79	229.38	234.88		234.88	0.000000	0.01	451.28	143.94	0.00
Reach 4	914	10-year	3.71	229.38	234.88		234.88	0.000000	0.01	451.28	143.94	0.00
Reach 4	914	25-year	4.98	229.38	234.88		234.88	0.000000	0.02	451.28	143.94	0.00
Reach 4	914	50-year	6.02	229.38	234.88		234.88	0.000000	0.02	451.28	143.94	0.00
Reach 4	914	100-year	7.12	229.38	234.88		234.88	0.000000	0.02	451.28	143.94	0.00
Reach 4	914	Regional	15.90	229.38	234.88		234.88	0.000000	0.05	451.29	143.95	0.01
Reach 4	899	2-year	1.57	229.40	233.81		233.81	0.000000	0.01	299.43	102.08	0.00
Reach 4	899	5-year	2.79	229.40	234.88		234.88	0.000000	0.01	424.72	141.15	0.00
Reach 4	899	10-year	3.71	229.40	234.88		234.88	0.000000	0.01	424.72	141.15	0.00
Reach 4	899	25-year	4.98	229.40	234.88		234.88	0.000000	0.02	424.72	141.15	0.00
Reach 4	899	50-year	6.02	229.40	234.88		234.88	0.000000	0.02	424.72	141.15	0.00
Reach 4	899	100-year	7.12	229.40	234.88		234.88	0.000000	0.02	424.72	141.15	0.00
Reach 4	899	Regional	15.90	229.40	234.88		234.88	0.000000	0.05	424.73	141.15	0.01
Reach 4	879	2-year	1.57	229.42	233.81		233.81	0.000000	0.01	342.14	109.54	0.00
Reach 4	879	5-year	2.79	229.42	234.88		234.88	0.000000	0.01	473.07	154.97	0.00
Reach 4	879	10-year	3.71	229.42	234.88		234.88	0.000000	0.01	473.07	154.97	0.00
Reach 4	879	25-year	4.98	229.42	234.88		234.88	0.000000	0.01	473.08	154.97	0.00
Reach 4	879	50-year	6.02	229.42	234.88		234.88	0.000000	0.02	473.07	154.97	0.00
Reach 4	879	100-year	7.12	229.42	234.88		234.88	0.000000	0.02	473.07	154.97	0.00
Reach 4	879	Regional	15.90	229.42	234.88		234.88	0.000000	0.05	473.09	154.98	0.01
Reach 4	861	2-year	1.57	229.42	233.81		233.81	0.000000	0.01	292.14	94.11	0.00
Reach 4	861	5-year	2.79	229.42	234.88		234.88	0.000000	0.01	415.16	130.98	0.00
Reach 4	861	10-year	3.71	229.42	234.88		234.88	0.000000	0.01	415.16	130.98	0.00
Reach 4	861	25-year	4.98	229.42	234.88		234.88	0.000000	0.02	415.16	130.98	0.00

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	861	50-year	6.02	229.42	234.88		234.88	0.000000	0.02	415.16	130.98	0.00
Reach 4	861	100-year	7.12	229.42	234.88		234.88	0.000000	0.02	415.16	130.98	0.00
Reach 4	861	Regional	15.90	229.42	234.88		234.88	0.000000	0.05	415.17	130.98	0.01
Reach 4	846	2-year	1.57	229.43	233.81	229.56	233.81	0.000000	0.02	63.47	96.57	0.00
Reach 4	846	5-year	2.79	229.43	234.88	229.61	234.88	0.000000	0.04	79.14	128.53	0.00
Reach 4	846	10-year	3.71	229.43	234.88	229.65	234.88	0.000000	0.05	79.14	128.53	0.01
Reach 4	846	25-year	4.98	229.43	234.88	229.69	234.88	0.000001	0.06	79.14	128.53	0.01
Reach 4	846	50-year	6.02	229.43	234.88	229.72	234.88	0.000001	0.08	79.13	128.53	0.01
Reach 4	846	100-year	7.12	229.43	234.88	229.75	234.88	0.000001	0.09	79.13	128.52	0.01
Reach 4	846	Regional	15.90	229.43	234.88	229.95	234.88	0.000005	0.20	79.11	128.48	0.03
Reach 4	800		Culvert									
Reach 4	790	2-year	1.76	228.79	229.13	229.13	229.26	0.018319	1.60	1.15	45.11	0.99
Reach 4	790	5-year	3.10	228.79	229.25	229.25	229.43	0.016139	1.92	1.69	49.24	0.99
Reach 4	790	10-year	4.08	228.79	229.32	229.32	229.54	0.015356	2.11	2.04	50.39	0.99
Reach 4	790	25-year	5.45	228.79	229.42	229.42	229.68	0.014578	2.32	2.47	51.57	1.00
Reach 4	790	50-year	6.58	228.79	229.48	229.48	229.79	0.014294	2.49	2.79	52.44	1.01
Reach 4	790	100-year	7.72	228.79	229.55	229.55	229.89	0.013788	2.62	3.11	53.19	1.01
Reach 4	790	Regional	20.85	228.79	230.18	230.18	230.84	0.011361	3.66	6.01	56.54	1.02
Reach 4	763	2-year	1.76	228.45	228.80		228.81	0.001626	0.46	5.50	30.03	0.29
Reach 4	763	5-year	3.10	228.45	228.92		228.93	0.001213	0.51	9.03	33.10	0.27
Reach 4	763	10-year	4.08	228.45	228.99		229.00	0.001083	0.54	11.52	36.48	0.26
Reach 4	763	25-year	5.45	228.45	229.08		229.09	0.000907	0.56	14.89	37.61	0.25
Reach 4	763	50-year	6.58	228.45	229.15		229.16	0.000806	0.57	17.60	38.49	0.24
Reach 4	763	100-year	7.72	228.45	229.22		229.23	0.000734	0.59	20.23	39.39	0.23
Reach 4	763	Regional	20.85	228.45	229.85		229.87	0.000414	0.69	46.31	42.10	0.19
Reach 4	727	2-year	1.76	228.36	228.77	228.58	228.78	0.000657	0.31	5.81	22.19	0.19
Reach 4	727	5-year	3.10	228.36	228.89	228.63	228.89	0.000615	0.38	8.44	23.01	0.19
Reach 4	727	10-year	4.08	228.36	228.96	228.66	228.97	0.000594	0.41	10.15	23.52	0.19
Reach 4	727	25-year	5.45	228.36	229.05	228.69	229.06	0.000569	0.46	12.36	24.10	0.20
Reach 4	727	50-year	6.58	228.36	229.13	228.71	229.14	0.000549	0.49	14.11	24.52	0.20
Reach 4	727	100-year	7.72	228.36	229.19	228.74	229.21	0.000532	0.52	15.79	24.91	0.20
Reach 4	727	Regional	20.85	228.36	229.83	228.96	229.85	0.000403	0.69	35.25	35.65	0.19
Reach 4	692.338	2-year	1.76	228.35	228.61	228.61	228.70	0.017318	1.34	1.47	34.08	0.93
Reach 4	692.338	5-year	3.10	228.35	228.69	228.69	228.82	0.016857	1.63	2.17	35.81	0.96
Reach 4	692.338	10-year	4.08	228.35	228.74	228.74	228.89	0.016230	1.79	2.63	36.64	0.97
Reach 4	692.338	25-year	5.45	228.35	228.81	228.81	228.99	0.015873	1.98	3.18	38.74	0.99
Reach 4	692.338	50-year	6.58	228.35	228.85	228.85	229.06	0.015672	2.12	3.60	39.32	1.00
Reach 4	692.338	100-year	7.72	228.35	228.90	228.90	229.13	0.015404	2.24	4.00	41.10	1.01
Reach 4	692.338	Regional	20.85	228.35	229.32	229.32	229.76	0.013470	3.15	7.69	46.19	1.04
Reach 4	670		Culvert									
Reach 4	638.888	2-year	1.53	227.81	228.07	228.00	228.09	0.005922	0.77	2.09	28.83	0.54
Reach 4	638.888	5-year	2.69	227.81	228.12	228.06	228.17	0.008773	1.09	2.63	30.83	0.68
Reach 4	638.888	10-year	4.95	227.81	228.17	228.16	228.30	0.014791	1.62	3.26	35.08	0.92
Reach 4	638.888	25-year	6.61	227.81	228.22	228.22	228.39	0.016921	1.89	3.73	38.07	1.00
Reach 4	638.888	50-year	7.95	227.81	228.26	228.26	228.46	0.016466	2.01	4.21	39.81	1.01
Reach 4	638.888	100-year	9.32	227.81	228.31	228.31	228.53	0.016092	2.13	4.67	40.69	1.01
Reach 4	638.888	Regional	23.85	227.81	228.69	228.69	229.10	0.013189	2.90	8.77	45.38	1.02
Reach 4	638.543	2-year	1.53	227.84	227.99		228.01	0.009819	0.76	3.32	44.14	0.65
Reach 4	638.543	5-year	2.69	227.84	228.02		228.05	0.010971	0.93	4.90	47.05	0.71
Reach 4	638.543	10-year	4.95	227.84	228.07		228.11	0.011784	1.14	7.27	47.43	0.77
Reach 4	638.543	25-year	6.61	227.84	228.11		228.15	0.011968	1.25	8.75	47.65	0.79
Reach 4	638.543	50-year	7.95	227.84	228.13		228.18	0.011672	1.32	9.95	47.83	0.80
Reach 4	638.543	100-year	9.32	227.84	228.15		228.21	0.011539	1.38	11.07	47.99	0.80
Reach 4	638.543	Regional	23.85	227.84	228.37		228.46	0.009479	1.79	21.41	49.49	0.80
Reach 4	618.4043	2-year	1.53	227.68	227.75	227.74	227.77	0.030862	0.73	2.47	32.89	0.99
Reach 4	618.4043	5-year	2.69	227.68	227.79	227.76	227.82	0.024636	0.92	3.70	33.66	0.96
Reach 4	618.4043	10-year	4.95	227.68	227.85		227.89	0.019614	1.14	5.73	34.91	0.93
Reach 4	618.4043	25-year	6.61	227.68	227.89		227.94	0.017191	1.24	7.12	35.73	0.91
Reach 4	618.4043	50-year	7.95	227.68	227.91		227.97	0.016524	1.33	8.09	36.30	0.91
Reach 4	618.4043	100-year	9.32	227.68	227.94		228.01	0.015686	1.40	9.08	36.86	0.90
Reach 4	618.4043	Regional	23.85	227.68	228.15		228.28	0.013188	1.95	17.46	41.26	0.92
Reach 4	589.1152	2-year	1.53	227.07	227.33	227.30	227.34	0.008272	0.67	3.76	39.99	0.59
Reach 4	589.1152	5-year	2.69	227.07	227.36	227.33	227.38	0.009501	0.83	5.21	40.34	0.66
Reach 4	589.1152	10-year	4.95	227.07	227.41	227.37	227.44	0.011872	1.08	7.17	40.81	0.76
Reach 4	589.1152	25-year	6.61	227.07	227.44	227.40	227.48	0.013779	1.24	8.21	41.06	0.83
Reach 4	589.1152	50-year	7.95	227.07	227.46	227.41	227.51	0.014858	1.35	9.02	41.24	0.88

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	589.1152	100-year	9.32	227.07	227.47	227.43	227.53	0.016018	1.45	9.73	41.41	0.92
Reach 4	589.1152	Regional	23.85	227.07	227.61	227.59	227.77	0.023318	2.33	15.47	42.98	1.19
Reach 4	540.9416	2-year	1.53	226.72	226.76	226.75	226.78	0.035502	0.50	2.52	37.25	0.95
Reach 4	540.9416	5-year	2.69	226.72	226.80	226.78	226.83	0.027360	0.78	4.07	43.06	0.96
Reach 4	540.9416	10-year	4.95	226.72	226.86		226.89	0.019145	1.01	7.00	50.90	0.90
Reach 4	540.9416	25-year	6.61	226.72	226.90		226.93	0.015785	1.09	8.99	51.08	0.85
Reach 4	540.9416	50-year	7.95	226.72	226.93		226.96	0.014307	1.15	10.44	51.21	0.83
Reach 4	540.9416	100-year	9.32	226.72	226.96		226.99	0.013213	1.21	11.82	51.33	0.82
Reach 4	540.9416	Regional	23.85	226.72	227.20		227.25	0.008458	1.57	24.24	52.43	0.74
Reach 4	487.0009	2-year	1.53	226.22	226.34		226.35	0.003269	0.39	5.20	35.39	0.36
Reach 4	487.0009	5-year	2.69	226.22	226.40		226.41	0.003377	0.52	7.29	36.60	0.40
Reach 4	487.0009	10-year	4.95	226.22	226.49		226.50	0.003616	0.70	10.41	38.21	0.44
Reach 4	487.0009	25-year	6.61	226.22	226.54		226.55	0.003697	0.80	12.39	39.30	0.46
Reach 4	487.0009	50-year	7.95	226.22	226.57		226.59	0.003756	0.87	13.87	40.08	0.47
Reach 4	487.0009	100-year	9.32	226.22	226.61		226.63	0.003782	0.93	15.32	40.79	0.48
Reach 4	487.0009	Regional	23.85	226.22	226.90		226.94	0.003937	1.37	27.70	45.75	0.54
Reach 4	459.8704	2-year	1.53	225.93	226.09	226.09	226.13	0.027439	0.97	1.58	17.19	1.02
Reach 4	459.8704	5-year	2.69	225.93	226.13	226.13	226.19	0.024539	1.11	2.43	20.56	1.01
Reach 4	459.8704	10-year	4.95	225.93	226.20	226.20	226.28	0.020147	1.33	3.88	23.92	0.98
Reach 4	459.8704	25-year	6.61	225.93	226.23	226.23	226.34	0.018736	1.46	4.83	25.20	0.98
Reach 4	459.8704	50-year	7.95	225.93	226.26	226.26	226.38	0.017742	1.54	5.59	26.17	0.97
Reach 4	459.8704	100-year	9.32	225.93	226.29	226.29	226.42	0.017224	1.62	6.30	27.05	0.97
Reach 4	459.8704	Regional	23.85	225.93	226.52	226.52	226.73	0.013755	2.14	13.35	34.51	0.96
Reach 4	428.8159	2-year	1.53	225.43	225.70		225.71	0.003164	0.54	3.15	20.59	0.39
Reach 4	428.8159	5-year	2.69	225.43	225.76		225.79	0.003429	0.68	4.63	23.90	0.43
Reach 4	428.8159	10-year	4.95	225.43	225.87		225.90	0.003411	0.85	7.35	28.56	0.45
Reach 4	428.8159	25-year	6.61	225.43	225.92		225.96	0.003658	0.97	8.91	30.70	0.48
Reach 4	428.8159	50-year	7.95	225.43	225.97		226.01	0.003500	1.02	10.46	33.00	0.48
Reach 4	428.8159	100-year	9.32	225.43	226.00		226.05	0.003907	1.12	11.37	34.72	0.51
Reach 4	428.8159	Regional	23.85	225.43	226.26		226.36	0.004589	1.61	22.41	46.44	0.59
Reach 4	394.871	2-year	1.53	225.26	225.43	225.43	225.48	0.022140	1.03	1.55	14.90	0.95
Reach 4	394.871	5-year	2.69	225.26	225.48	225.48	225.56	0.018314	1.21	2.44	17.51	0.92
Reach 4	394.871	10-year	4.95	225.26	225.55	225.55	225.66	0.018393	1.52	3.80	20.55	0.98
Reach 4	394.871	25-year	6.61	225.26	225.61	225.61	225.73	0.015276	1.60	5.09	24.02	0.92
Reach 4	394.871	50-year	7.95	225.26	225.63	225.63	225.78	0.017165	1.77	5.63	25.54	0.99
Reach 4	394.871	100-year	9.32	225.26	225.69	225.69	225.82	0.012683	1.70	7.40	33.10	0.88
Reach 4	394.871	Regional	23.85	225.26	225.93	225.93	226.12	0.011595	2.24	16.63	45.17	0.91
Reach 4	349.2437	2-year	1.53	224.34	224.61	224.59	224.66	0.014837	1.06	1.53	11.73	0.83
Reach 4	349.2437	5-year	2.69	224.34	224.66	224.66	224.75	0.016765	1.37	2.26	14.42	0.92
Reach 4	349.2437	10-year	4.95	224.34	224.76	224.76	224.88	0.014996	1.64	3.78	17.27	0.92
Reach 4	349.2437	25-year	6.61	224.34	224.81	224.81	224.96	0.014621	1.80	4.78	18.90	0.94
Reach 4	349.2437	50-year	7.95	224.34	224.86	224.86	225.01	0.013986	1.89	5.62	20.16	0.93
Reach 4	349.2437	100-year	9.32	224.34	224.90	224.90	225.06	0.013588	1.98	6.42	21.18	0.93
Reach 4	349.2437	Regional	23.85	224.34	225.19	225.19	225.45	0.012502	2.64	13.77	28.64	0.97
Reach 4	315.6893	2-year	1.53	223.71	223.97	223.97	224.04	0.023725	1.19	1.29	9.64	1.01
Reach 4	315.6893	5-year	2.69	223.71	224.04	224.04	224.14	0.020017	1.41	1.97	10.92	0.99
Reach 4	315.6893	10-year	4.95	223.71	224.14	224.14	224.28	0.016634	1.69	3.21	12.99	0.97
Reach 4	315.6893	25-year	6.61	223.71	224.20	224.20	224.37	0.015370	1.84	4.07	14.26	0.96
Reach 4	315.6893	50-year	7.95	223.71	224.25	224.25	224.43	0.014562	1.93	4.77	15.21	0.95
Reach 4	315.6893	100-year	9.32	223.71	224.29	224.29	224.49	0.014026	2.03	5.44	16.08	0.95
Reach 4	315.6893	Regional	23.85	223.71	224.63	224.63	224.94	0.011850	2.69	11.98	22.52	0.96
Reach 4	275.2624	2-year	1.53	223.35	223.65		223.66	0.001981	0.50	3.21	15.63	0.32
Reach 4	275.2624	5-year	2.69	223.35	223.76		223.77	0.001751	0.59	5.04	18.99	0.32
Reach 4	275.2624	10-year	4.95	223.35	223.91		223.93	0.001645	0.73	8.17	23.04	0.33
Reach 4	275.2624	25-year	6.61	223.35	223.99		224.02	0.001610	0.80	10.28	25.33	0.33
Reach 4	275.2624	50-year	7.95	223.35	224.06		224.09	0.001601	0.85	11.90	26.95	0.34
Reach 4	275.2624	100-year	9.32	223.35	224.11		224.15	0.001603	0.90	13.46	28.43	0.34
Reach 4	275.2624	Regional	23.85	223.35	224.54		224.60	0.001684	1.27	28.05	40.83	0.38
Reach 4	229.0522	2-year	1.53	223.05	223.39	223.37	223.47	0.013831	1.26	1.36	8.00	0.84
Reach 4	229.0522	5-year	2.69	223.05	223.46	223.46	223.58	0.015524	1.61	2.01	9.70	0.93
Reach 4	229.0522	10-year	4.95	223.05	223.60	223.60	223.75	0.013286	1.90	3.53	13.06	0.91
Reach 4	229.0522	25-year	6.61	223.05	223.67	223.67	223.85	0.012639	2.06	4.59	15.01	0.92
Reach 4	229.0522	50-year	7.95	223.05	223.73	223.73	223.92	0.012161	2.16	5.45	16.43	0.91
Reach 4	229.0522	100-year	9.32	223.05	223.78	223.78	223.98	0.011877	2.26	6.30	17.71	0.92
Reach 4	229.0522	Regional	23.85	223.05	224.14	224.14	224.42	0.010723	2.92	14.55	27.48	0.94
Reach 4	173.0601	2-year	1.53	222.67	222.95		222.97	0.005779	0.72	2.28	15.58	0.53
Reach 4	173.0601	5-year	2.69	222.67	223.03		223.06	0.004890	0.85	3.73	19.01	0.51

HEC-RAS Plan: ModEx_Feb2024_6hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	173.0601	10-year	4.95	222.67	223.15		223.20	0.004308	1.01	6.30	23.72	0.51
Reach 4	173.0601	25-year	6.61	222.67	223.22		223.27	0.004039	1.09	8.11	26.56	0.51
Reach 4	173.0601	50-year	7.95	222.67	223.27		223.33	0.003902	1.15	9.56	28.89	0.51
Reach 4	173.0601	100-year	9.32	222.67	223.32		223.38	0.003783	1.20	11.00	30.89	0.51
Reach 4	173.0601	Regional	23.85	222.67	223.68		223.77	0.003363	1.58	24.55	44.44	0.52
Reach 4	153.1	2-year	1.53	222.33	222.70	222.65	222.75	0.007047	1.12	2.24	12.36	0.63
Reach 4	153.1	5-year	2.69	222.33	222.79	222.73	222.85	0.007675	1.38	3.43	14.97	0.69
Reach 4	153.1	10-year	4.95	222.33	222.91	222.85	223.00	0.008190	1.69	5.42	18.02	0.74
Reach 4	153.1	25-year	6.61	222.33	222.98	222.91	223.08	0.008612	1.87	6.66	19.63	0.77
Reach 4	153.1	50-year	7.95	222.33	223.03	222.95	223.13	0.008868	2.00	7.61	20.84	0.80
Reach 4	153.1	100-year	9.32	222.33	223.07	222.99	223.19	0.009043	2.11	8.57	22.08	0.81
Reach 4	153.1	Regional	23.85	222.33	223.41	223.32	223.59	0.009297	2.80	17.68	30.69	0.88
Reach 4	137.87	2-year	1.53	221.96	222.26	222.25	222.32	0.020793	1.13	1.36	9.48	0.95
Reach 4	137.87	5-year	2.69	221.96	222.32	222.32	222.41	0.019401	1.35	2.01	10.90	0.97
Reach 4	137.87	10-year	4.95	221.96	222.42	222.42	222.55	0.017390	1.66	3.14	12.89	0.98
Reach 4	137.87	25-year	6.61	221.96	222.48	222.48	222.64	0.015947	1.81	3.97	14.18	0.97
Reach 4	137.87	50-year	7.95	221.96	222.52	222.52	222.70	0.015045	1.90	4.65	15.14	0.96
Reach 4	137.87	100-year	9.32	221.96	222.57	222.57	222.76	0.014377	1.99	5.32	16.04	0.95
Reach 4	137.87	Regional	23.85	221.96	222.93	222.93	223.21	0.010553	2.53	12.69	26.09	0.90
Reach 4	99.65	2-year	1.53	221.71	221.93	221.84	221.94	0.003368	0.49	3.14	19.73	0.39
Reach 4	99.65	5-year	2.69	221.71	222.00	221.89	222.02	0.003703	0.60	4.50	22.37	0.43
Reach 4	99.65	10-year	4.95	221.71	222.08	221.96	222.11	0.004108	0.79	6.40	25.37	0.47
Reach 4	99.65	25-year	6.61	221.71	222.12	222.00	222.16	0.004319	0.89	7.64	27.13	0.50
Reach 4	99.65	50-year	7.95	221.71	222.16	222.03	222.21	0.004462	0.97	8.59	28.40	0.51
Reach 4	99.65	100-year	9.32	221.71	222.19	222.06	222.24	0.004601	1.04	9.50	29.52	0.53
Reach 4	99.65	Regional	23.85	221.71	222.43	222.29	222.55	0.005471	1.56	17.71	37.65	0.63
Reach 4	11.71822	2-year	1.53	221.55	221.58	221.58	221.62	0.072991	0.69	1.89	27.18	1.35
Reach 4	11.71822	5-year	2.69	221.55	221.61	221.61	221.66	0.069537	1.07	2.71	27.85	1.48
Reach 4	11.71822	10-year	4.95	221.55	221.66	221.66	221.74	0.058281	1.45	4.16	28.98	1.49
Reach 4	11.71822	25-year	6.61	221.55	221.69	221.69	221.78	0.054850	1.63	5.07	29.67	1.50
Reach 4	11.71822	50-year	7.95	221.55	221.72	221.72	221.82	0.051703	1.74	5.80	30.21	1.49
Reach 4	11.71822	100-year	9.32	221.55	221.74	221.74	221.85	0.049663	1.83	6.48	30.71	1.49
Reach 4	11.71822	Regional	23.85	221.55	221.93	221.93	222.13	0.039483	2.58	12.59	34.74	1.49

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 6	1154.71	2-year	0.47	246.89	247.01	246.99	247.02	0.015238	0.52	0.89	15.80	0.70
Reach 6	1154.71	5-year	0.75	246.89	247.03	247.01	247.05	0.014004	0.59	1.27	17.39	0.70
Reach 6	1154.71	10-year	0.96	246.89	247.04	247.02	247.06	0.014194	0.64	1.50	18.52	0.71
Reach 6	1154.71	25-year	1.23	246.89	247.06	247.04	247.08	0.013324	0.67	1.83	20.03	0.71
Reach 6	1154.71	50-year	1.43	246.89	247.07	247.05	247.09	0.015238	0.73	1.95	20.55	0.76
Reach 6	1154.71	100-year	1.64	246.89	247.08	247.06	247.11	0.014235	0.74	2.20	21.60	0.74
Reach 6	1154.71	Regional	3.50	246.89	247.15	247.12	247.19	0.011080	0.90	3.98	27.93	0.71
Reach 6	1064.02	2-year	0.47	245.66	245.77	245.75	245.78	0.012416	0.47	1.00	17.84	0.63
Reach 6	1064.02	5-year	0.75	245.66	245.78	245.76	245.80	0.013489	0.57	1.33	18.77	0.68
Reach 6	1064.02	10-year	0.96	245.66	245.79	245.78	245.81	0.013367	0.62	1.55	19.29	0.69
Reach 6	1064.02	25-year	1.23	245.66	245.81	245.79	245.83	0.014310	0.69	1.77	19.80	0.73
Reach 6	1064.02	50-year	1.43	245.66	245.82	245.80	245.85	0.012474	0.70	2.05	20.40	0.70
Reach 6	1064.02	100-year	1.64	245.66	245.83	245.80	245.86	0.013357	0.75	2.19	20.70	0.73
Reach 6	1064.02	Regional	3.50	245.66	245.88	245.87	245.94	0.017580	1.10	3.29	24.59	0.89
Reach 6	962.05	2-year	0.47	244.36	244.47	244.45	244.48	0.013407	0.51	0.92	15.29	0.66
Reach 6	962.05	5-year	0.75	244.36	244.49	244.47	244.51	0.012272	0.59	1.28	16.75	0.66
Reach 6	962.05	10-year	0.96	244.36	244.50	244.48	244.52	0.012360	0.65	1.49	17.55	0.68
Reach 6	962.05	25-year	1.23	244.36	244.52	244.49	244.54	0.011519	0.70	1.80	18.57	0.68
Reach 6	962.05	50-year	1.43	244.36	244.52	244.50	244.55	0.013215	0.78	1.90	18.86	0.73
Reach 6	962.05	100-year	1.64	244.36	244.53	244.51	244.57	0.012288	0.80	2.13	19.47	0.72
Reach 6	962.05	Regional	3.50	244.36	244.62		244.67	0.009455	0.99	4.05	25.57	0.68
Reach 6	881.96	2-year	0.47	243.45	243.60		243.62	0.009279	0.56	0.83	9.15	0.59
Reach 6	881.96	5-year	0.75	243.45	243.64	243.60	243.66	0.009708	0.65	1.16	10.41	0.62
Reach 6	881.96	10-year	0.96	243.45	243.66	243.62	243.68	0.009541	0.69	1.38	11.13	0.63
Reach 6	881.96	25-year	1.23	243.45	243.68		243.71	0.009952	0.76	1.62	11.82	0.65
Reach 6	881.96	50-year	1.43	243.45	243.70		243.73	0.008648	0.75	1.90	12.64	0.62
Reach 6	881.96	100-year	1.64	243.45	243.71		243.75	0.009158	0.80	2.06	13.07	0.64
Reach 6	881.96	Regional	3.50	243.45	243.80	243.76	243.86	0.011513	1.05	3.32	16.46	0.75
Reach 6	808.88	2-year	0.47	242.86	242.96		242.97	0.007575	0.35	1.33	25.15	0.49
Reach 6	808.88	5-year	0.75	242.86	242.98		242.99	0.007602	0.41	1.82	26.95	0.51
Reach 6	808.88	10-year	0.96	242.86	242.99		243.00	0.007939	0.43	2.21	31.45	0.52
Reach 6	808.88	25-year	1.23	242.86	243.01		243.02	0.007874	0.46	2.69	35.32	0.53
Reach 6	808.88	50-year	1.43	242.86	243.01		243.02	0.009570	0.51	2.81	36.08	0.58
Reach 6	808.88	100-year	1.64	242.86	243.02		243.03	0.009095	0.52	3.14	37.49	0.58
Reach 6	808.88	Regional	3.50	242.86	243.08		243.10	0.008196	0.64	5.48	44.61	0.58
Reach 6	744.83	2-year	0.47	241.99	242.07	242.07	242.10	0.032402	0.73	0.64	11.98	1.01
Reach 6	744.83	5-year	0.75	241.99	242.09	242.09	242.13	0.031469	0.84	0.89	13.16	1.03
Reach 6	744.83	10-year	0.96	241.99	242.11	242.11	242.15	0.028577	0.89	1.08	13.73	1.01
Reach 6	744.83	25-year	1.23	241.99	242.13	242.13	242.17	0.028317	0.86	1.43	18.89	1.00
Reach 6	744.83	50-year	1.43	241.99	242.15	242.14	242.18	0.020398	0.79	1.82	21.52	0.86
Reach 6	744.83	100-year	1.64	241.99	242.15	242.15	242.19	0.021817	0.84	1.94	21.75	0.90
Reach 6	744.83	Regional	3.50	241.99	242.20	242.20	242.27	0.024194	1.16	3.02	22.71	1.01
Reach 6	688	2-year	0.47	241.16	241.31		241.31	0.003837	0.37	1.27	13.42	0.38
Reach 6	688	5-year	0.75	241.16	241.34		241.35	0.004006	0.42	1.78	15.86	0.40
Reach 6	688	10-year	0.96	241.16	241.35		241.37	0.005066	0.49	1.94	16.26	0.46
Reach 6	688	25-year	1.23	241.16	241.38		241.40	0.004223	0.50	2.44	17.23	0.43
Reach 6	688	50-year	1.43	241.16	241.36		241.38	0.010299	0.71	2.00	16.41	0.65
Reach 6	688	100-year	1.64	241.16	241.37		241.40	0.009747	0.73	2.24	16.90	0.64
Reach 6	688	Regional	3.50	241.16	241.47		241.51	0.007795	0.88	3.96	19.09	0.62
Reach 8	25105	2-year	0.28	245.72	245.81	245.81	245.84	0.028390	0.74	0.38	6.36	0.96
Reach 8	25105	5-year	0.47	245.72	245.83	245.83	245.87	0.027729	0.86	0.55	7.16	0.99
Reach 8	25105	10-year	0.60	245.72	245.85	245.85	245.89	0.026528	0.91	0.66	7.64	0.99
Reach 8	25105	25-year	0.77	245.72	245.87	245.87	245.91	0.025366	0.96	0.80	8.20	0.98
Reach 8	25105	50-year	0.89	245.72	245.88	245.88	245.93	0.024452	0.99	0.90	8.60	0.98
Reach 8	25105	100-year	1.03	245.72	245.89	245.89	245.94	0.023454	1.02	1.01	9.00	0.97
Reach 8	25105	Regional	2.05	245.72	245.96	245.96	246.03	0.021401	1.20	1.71	11.25	0.98
Reach 8	25101	2-year	0.28	245.22	245.32		245.33	0.007301	0.43	0.65	8.73	0.51
Reach 8	25101	5-year	0.47	245.22	245.35		245.37	0.007420	0.51	0.92	9.76	0.53
Reach 8	25101	10-year	0.60	245.22	245.37		245.39	0.007603	0.55	1.08	10.33	0.55
Reach 8	25101	25-year	0.77	245.22	245.39		245.41	0.007804	0.60	1.27	10.96	0.56
Reach 8	25101	50-year	0.89	245.22	245.40		245.42	0.007989	0.63	1.41	11.39	0.58
Reach 8	25101	100-year	1.03	245.22	245.41		245.43	0.008244	0.67	1.54	11.78	0.59
Reach 8	25101	Regional	2.05	245.22	245.48		245.52	0.008769	0.83	2.48	14.47	0.64
Reach 8	25005	2-year	0.28	244.65	244.74	244.74	244.77	0.031428	0.73	0.39	7.05	1.00
Reach 8	25005	5-year	0.47	244.65	244.77	244.77	244.80	0.031046	0.79	0.59	9.50	1.01
Reach 8	25005	10-year	0.60	244.65	244.78	244.78	244.82	0.029496	0.83	0.72	10.28	1.01
Reach 8	25005	25-year	0.77	244.65	244.80	244.80	244.84	0.028668	0.88	0.87	11.14	1.01
Reach 8	25005	50-year	0.89	244.65	244.81	244.81	244.85	0.027920	0.91	0.98	11.71	1.01

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 8	25005	100-year	1.03	244.65	244.81	244.81	244.86	0.026532	0.94	1.09	12.06	1.00
Reach 8	25005	Regional	2.05	244.65	244.87	244.87	244.94	0.024351	1.14	1.80	13.82	1.01
Reach 8	24932.1	2-year	0.28	244.02	244.13	244.10	244.14	0.006577	0.37	0.77	11.99	0.47
Reach 8	24932.1	5-year	0.47	244.02	244.15	244.13	244.16	0.008035	0.46	1.02	13.19	0.53
Reach 8	24932.1	10-year	0.60	244.02	244.16	244.13	244.18	0.008653	0.52	1.16	13.55	0.56
Reach 8	24932.1	25-year	0.77	244.02	244.18	244.15	244.20	0.007600	0.54	1.42	14.18	0.54
Reach 8	24932.1	50-year	0.89	244.02	244.19	244.15	244.21	0.008753	0.59	1.50	14.37	0.59
Reach 8	24932.1	100-year	1.03	244.02	244.20	244.16	244.22	0.008928	0.63	1.62	14.71	0.60
Reach 8	24932.1	Regional	2.05	244.02	244.25	244.21	244.29	0.009263	0.84	2.52	17.46	0.65
Reach 8	24932	2-year	0.28	243.60	243.65	243.65	243.67	0.038431	0.57	0.50	15.73	1.01
Reach 8	24932	5-year	0.47	243.60	243.67	243.67	243.69	0.025940	0.61	0.78	16.93	0.89
Reach 8	24932	10-year	0.60	243.60	243.68	243.67	243.70	0.022894	0.64	0.94	17.32	0.86
Reach 8	24932	25-year	0.77	243.60	243.68	243.68	243.71	0.030156	0.77	1.01	17.44	0.99
Reach 8	24932	50-year	0.89	243.60	243.70	243.69	243.72	0.023087	0.76	1.21	17.81	0.90
Reach 8	24932	100-year	1.03	243.60	243.70	243.70	243.73	0.022717	0.79	1.33	18.02	0.90
Reach 8	24932	Regional	2.05	243.60	243.74	243.74	243.80	0.022360	1.04	2.08	19.33	0.96
Reach 8	24406	2-year	0.28	243.08	243.20	243.17	243.20	0.005411	0.32	0.95	17.29	0.42
Reach 8	24406	5-year	0.47	243.08	243.22	243.19	243.22	0.005644	0.40	1.30	18.29	0.45
Reach 8	24406	10-year	0.60	243.08	243.22	243.20	243.23	0.006764	0.46	1.43	18.65	0.50
Reach 8	24406	25-year	0.77	243.08	243.24	243.20	243.25	0.005709	0.48	1.78	19.80	0.47
Reach 8	24406	50-year	0.89	243.08	243.25	243.21	243.26	0.006621	0.53	1.88	20.14	0.51
Reach 8	24406	100-year	1.03	243.08	243.26	243.22	243.27	0.006662	0.56	2.06	20.69	0.52
Reach 8	24406	Regional	2.05	243.08	243.31		243.34	0.006577	0.73	3.34	23.35	0.55
Reach 8	24152	2-year	0.28	242.40	242.47	242.47	242.49	0.036116	0.59	0.48	13.26	1.00
Reach 8	24152	5-year	0.47	242.40	242.49	242.49	242.51	0.032958	0.67	0.70	14.89	0.99
Reach 8	24152	10-year	0.60	242.40	242.51	242.50	242.53	0.021979	0.62	0.96	16.93	0.84
Reach 8	24152	25-year	0.77	242.40	242.51	242.51	242.54	0.032203	0.77	1.00	17.18	1.02
Reach 8	24152	50-year	0.89	242.40	242.52	242.52	242.55	0.023340	0.72	1.24	18.63	0.89
Reach 8	24152	100-year	1.03	242.40	242.53	242.52	242.56	0.023271	0.75	1.37	19.41	0.89
Reach 8	24152	Regional	2.05	242.40	242.57	242.56	242.62	0.024737	0.98	2.09	20.48	0.98
Reach 8	24151	2-year	0.28	241.22	241.32	241.31	241.34	0.012698	0.51	0.55	8.66	0.65
Reach 8	24151	5-year	0.47	241.22	241.35		241.37	0.014842	0.64	0.74	9.30	0.73
Reach 8	24151	10-year	0.60	241.22	241.34	241.34	241.38	0.029059	0.87	0.69	9.16	1.01
Reach 8	24151	25-year	0.77	241.22	241.37	241.36	241.40	0.018394	0.79	0.97	10.53	0.83
Reach 8	24151	50-year	0.89	241.22	241.37	241.37	241.41	0.026666	0.94	0.95	10.39	1.00
Reach 8	24151	100-year	1.03	241.22	241.38	241.38	241.42	0.026642	0.97	1.05	11.01	1.01
Reach 8	24151	Regional	2.05	241.22	241.43	241.43	241.50	0.023919	1.17	1.76	12.90	1.01
Reach 6-Lower	629	2-year	0.66	240.55	240.71	240.71	240.75	0.027466	0.86	0.76	9.81	0.99
Reach 6-Lower	629	5-year	1.08	240.55	240.75	240.74	240.79	0.024519	0.91	1.19	12.98	0.96
Reach 6-Lower	629	10-year	1.39	240.55	240.78		240.82	0.015911	0.81	1.72	16.06	0.79
Reach 6-Lower	629	25-year	1.82	240.55	240.79	240.79	240.84	0.020800	0.96	1.89	16.65	0.91
Reach 6-Lower	629	50-year	2.15	240.55	240.86	240.80	240.88	0.007531	0.72	3.00	19.25	0.58
Reach 6-Lower	629	100-year	2.51	240.55	240.87	240.81	240.90	0.007671	0.76	3.32	19.91	0.59
Reach 6-Lower	629	Regional	5.55	240.55	240.97	240.91	241.03	0.008322	1.01	5.49	22.65	0.66
Reach 6-Lower	581.37	2-year	0.66	240.21	240.41		240.42	0.003362	0.35	1.91	20.00	0.36
Reach 6-Lower	581.37	5-year	1.08	240.21	240.45		240.46	0.003587	0.41	2.63	22.36	0.38
Reach 6-Lower	581.37	10-year	1.39	240.21	240.46		240.47	0.004701	0.49	2.85	23.01	0.44
Reach 6-Lower	581.37	25-year	1.82	240.21	240.49	240.41	240.50	0.003886	0.51	3.57	23.83	0.42
Reach 6-Lower	581.37	50-year	2.15	240.21	240.46	240.43	240.49	0.011374	0.76	2.84	22.99	0.69
Reach 6-Lower	581.37	100-year	2.51	240.21	240.47	240.44	240.50	0.011189	0.80	3.14	23.34	0.69
Reach 6-Lower	581.37	Regional	5.55	240.21	240.56	240.52	240.62	0.010943	1.08	5.20	25.60	0.74
Reach 6-Lower	522.55	2-year	0.66	239.81	239.93	239.93	239.95	0.035861	0.68	0.97	21.85	1.03
Reach 6-Lower	522.55	5-year	1.08	239.81	239.95	239.95	239.97	0.032239	0.75	1.44	25.83	1.01
Reach 6-Lower	522.55	10-year	1.39	239.81	239.97	239.96	239.99	0.017101	0.65	2.14	29.59	0.77
Reach 6-Lower	522.55	25-year	1.82	239.81	239.97	239.97	240.01	0.028532	0.84	2.16	29.60	1.00
Reach 6-Lower	522.55	50-year	2.15	239.81	240.04	239.98	240.05	0.005069	0.52	4.12	31.91	0.46
Reach 6-Lower	522.55	100-year	2.51	239.81	240.05	239.99	240.06	0.005152	0.56	4.52	32.41	0.47
Reach 6-Lower	522.55	Regional	5.55	239.81	240.13	240.05	240.16	0.005546	0.78	7.24	34.91	0.53
Reach 6-Lower	379.80	2-year	0.66	238.57	238.69	238.66	238.70	0.004169	0.33	1.97	25.68	0.38
Reach 6-Lower	379.80	5-year	1.08	238.57	238.72		238.73	0.004366	0.41	2.66	26.71	0.41
Reach 6-Lower	379.80	10-year	1.39	238.57	238.73		238.74	0.006161	0.50	2.81	26.92	0.49
Reach 6-Lower	379.80	25-year	1.82	238.57	238.77		238.78	0.003419	0.45	4.02	28.49	0.38
Reach 6-Lower	379.80	50-year	2.15	238.57	238.71	238.71	238.75	0.027770	0.94	2.29	26.17	1.01
Reach 6-Lower	379.80	100-year	2.51	238.57	238.72	238.72	238.77	0.026637	0.98	2.56	26.57	1.01
Reach 6-Lower	379.80	Regional	5.55	238.57	238.79	238.79	238.86	0.022455	1.24	4.48	28.74	1.00
Reach 6-Lower	289.21	2-year	0.66	237.90	238.06	238.05	238.08	0.015696	0.54	1.22	20.69	0.71
Reach 6-Lower	289.21	5-year	1.08	237.90	238.09	238.07	238.11	0.014276	0.63	1.71	21.64	0.71

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 6-Lower	289.21	10-year	1.39	237.90	238.12		238.14	0.008118	0.57	2.45	23.51	0.56
Reach 6-Lower	289.21	25-year	1.82	237.90	238.10	238.10	238.14	0.026697	0.93	1.96	22.10	1.00
Reach 6-Lower	289.21	50-year	2.15	237.90	238.58		238.58	0.000047	0.13	18.32	41.66	0.06
Reach 6-Lower	289.21	100-year	2.51	237.90	238.60		238.60	0.000058	0.14	18.98	42.11	0.06
Reach 6-Lower	289.21	Regional	5.55	237.90	238.76		238.76	0.000112	0.24	26.12	45.90	0.09
Reach 6-Lower	217.29	2-year	0.66	236.91	237.07	237.05	237.10	0.012441	0.66	0.99	10.43	0.69
Reach 6-Lower	217.29	5-year	1.08	236.91	237.12	237.08	237.14	0.012973	0.73	1.48	14.03	0.71
Reach 6-Lower	217.29	10-year	1.39	236.91	237.10	237.10	237.16	0.027890	1.10	1.26	11.31	1.06
Reach 6-Lower	217.29	25-year	1.82	236.91	237.65		237.66	0.000047	0.14	15.98	37.28	0.06
Reach 6-Lower	217.29	50-year	2.15	236.91	238.58		238.58	0.000002	0.05	60.03	57.72	0.01
Reach 6-Lower	217.29	100-year	2.51	236.91	238.60		238.60	0.000002	0.06	60.94	58.20	0.02
Reach 6-Lower	217.29	Regional	5.55	236.91	238.76		238.76	0.000008	0.12	71.40	69.44	0.03
Reach 6-Lower	175.22	2-year	0.66	235.75	235.87	235.87	235.91	0.028881	0.83	0.80	11.37	1.00
Reach 6-Lower	175.22	5-year	1.08	235.75	235.90	235.90	235.94	0.027499	0.96	1.13	12.39	1.01
Reach 6-Lower	175.22	10-year	1.39	235.75	236.51		236.51	0.000032	0.12	12.67	25.01	0.05
Reach 6-Lower	175.22	25-year	1.82	235.75	237.65		237.65	0.000001	0.05	54.34	46.10	0.01
Reach 6-Lower	175.22	50-year	2.15	235.75	238.58		238.58	0.000000	0.03	104.24	64.74	0.01
Reach 6-Lower	175.22	100-year	2.51	235.75	238.60		238.60	0.000000	0.04	105.25	65.24	0.01
Reach 6-Lower	175.22	Regional	5.55	235.75	238.76		238.76	0.000002	0.08	116.36	71.48	0.01
Reach 6-Lower	75.62	2-year	0.66	234.50	234.86		234.87	0.000156	0.15	4.65	19.74	0.09
Reach 6-Lower	75.62	5-year	1.08	234.50	235.85		235.85	0.000002	0.04	34.18	41.06	0.01
Reach 6-Lower	75.62	10-year	1.39	234.50	236.51		236.51	0.000001	0.03	65.76	54.31	0.01
Reach 6-Lower	75.62	25-year	1.82	234.50	237.65		237.65	0.000000	0.02	140.12	75.22	0.00
Reach 6-Lower	75.62	50-year	2.15	234.50	238.58		238.58	0.000000	0.02	222.41	102.94	0.00
Reach 6-Lower	75.62	100-year	2.51	234.50	238.60		238.60	0.000000	0.02	224.03	104.23	0.00
Reach 6-Lower	75.62	Regional	5.55	234.50	238.76		238.76	0.000000	0.04	241.48	113.99	0.01
Reach 6-Lower	17.67	2-year	0.66	234.42	234.86		234.86	0.000023	0.07	10.32	32.57	0.04
Reach 6-Lower	17.67	5-year	1.08	234.42	235.85		235.85	0.000001	0.02	52.05	51.12	0.01
Reach 6-Lower	17.67	10-year	1.39	234.42	236.51		236.51	0.000000	0.02	89.36	62.62	0.00
Reach 6-Lower	17.67	25-year	1.82	234.42	237.65		237.65	0.000000	0.01	177.93	93.01	0.00
Reach 6-Lower	17.67	50-year	2.15	234.42	238.58		238.58	0.000000	0.01	280.31	126.24	0.00
Reach 6-Lower	17.67	100-year	2.51	234.42	238.60		238.60	0.000000	0.01	282.29	126.77	0.00
Reach 6-Lower	17.67	Regional	5.55	234.42	238.76		238.76	0.000000	0.03	303.50	140.68	0.00
Reach 5	2480.223	2-year	0.65	246.13	246.32	246.27	246.33	0.006522	0.53	1.24	11.32	0.51
Reach 5	2480.223	5-year	1.07	246.13	246.36	246.30	246.38	0.006848	0.61	1.74	13.13	0.54
Reach 5	2480.223	10-year	1.38	246.13	246.38	246.32	246.40	0.007158	0.67	2.06	14.61	0.56
Reach 5	2480.223	25-year	1.78	246.13	246.41	246.35	246.44	0.007473	0.72	2.52	18.57	0.58
Reach 5	2480.223	50-year	2.09	246.13	246.42	246.36	246.45	0.007764	0.77	2.81	22.10	0.60
Reach 5	2480.223	100-year	2.41	246.13	246.44	246.38	246.47	0.007859	0.81	3.20	28.89	0.61
Reach 5	2480.223	Regional	5.86	246.13	246.54	246.50	246.60	0.008351	1.13	6.58	39.52	0.68
Reach 5	2413.965	2-year	0.65	245.66	245.78		245.79	0.010414	0.52	1.27	17.03	0.60
Reach 5	2413.965	5-year	1.07	245.66	245.81		245.83	0.010234	0.58	1.85	21.44	0.62
Reach 5	2413.965	10-year	1.38	245.66	245.82		245.84	0.010046	0.63	2.19	22.55	0.63
Reach 5	2413.965	25-year	1.78	245.66	245.84		245.87	0.009914	0.70	2.62	23.84	0.64
Reach 5	2413.965	50-year	2.09	245.66	245.86		245.88	0.009545	0.73	2.96	24.82	0.64
Reach 5	2413.965	100-year	2.41	245.66	245.87		245.90	0.009540	0.77	3.27	25.68	0.65
Reach 5	2413.965	Regional	5.86	245.66	245.97		246.02	0.008934	1.01	6.39	33.49	0.67
Reach 5	2353.877	2-year	0.65	245.34	245.48		245.48	0.003041	0.29	2.29	29.68	0.33
Reach 5	2353.877	5-year	1.07	245.34	245.51		245.51	0.003118	0.34	3.17	35.25	0.35
Reach 5	2353.877	10-year	1.38	245.34	245.52		245.53	0.003208	0.37	3.79	40.29	0.36
Reach 5	2353.877	25-year	1.78	245.34	245.54		245.55	0.003254	0.41	4.53	41.75	0.37
Reach 5	2353.877	50-year	2.09	245.34	245.55		245.56	0.003386	0.44	5.00	42.65	0.38
Reach 5	2353.877	100-year	2.41	245.34	245.56		245.57	0.003408	0.46	5.52	43.62	0.39
Reach 5	2353.877	Regional	5.86	245.34	245.65		245.67	0.004019	0.68	9.55	49.63	0.45
Reach 5	2307.004	2-year	0.65	245.12	245.24		245.25	0.009863	0.38	1.71	34.62	0.55
Reach 5	2307.004	5-year	1.07	245.12	245.26		245.27	0.010011	0.46	2.33	36.47	0.58
Reach 5	2307.004	10-year	1.38	245.12	245.27		245.28	0.010476	0.51	2.70	37.04	0.60
Reach 5	2307.004	25-year	1.78	245.12	245.28		245.30	0.010532	0.56	3.17	37.75	0.62
Reach 5	2307.004	50-year	2.09	245.12	245.29		245.31	0.010050	0.59	3.56	38.34	0.62
Reach 5	2307.004	100-year	2.41	245.12	245.30		245.32	0.009728	0.61	3.94	38.89	0.61
Reach 5	2307.004	Regional	5.86	245.12	245.39	245.33	245.42	0.007547	0.79	7.69	49.11	0.59
Reach 5	2247.605	2-year	0.65	244.45	244.56	244.54	244.57	0.013114	0.58	1.26	21.52	0.68
Reach 5	2247.605	5-year	1.07	244.45	244.58		244.61	0.012509	0.67	1.94	29.07	0.69
Reach 5	2247.605	10-year	1.38	244.45	244.60		244.62	0.011710	0.69	2.49	31.38	0.68
Reach 5	2247.605	25-year	1.78	244.45	244.62		244.64	0.011367	0.75	3.02	32.26	0.69
Reach 5	2247.605	50-year	2.09	244.45	244.63		244.66	0.011843	0.81	3.33	32.70	0.71
Reach 5	2247.605	100-year	2.41	244.45	244.64		244.67	0.012347	0.86	3.62	33.07	0.73
Reach 5	2247.605	Regional	5.86	244.45	244.71	244.70	244.78	0.016359	1.30	6.19	39.46	0.90

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 5	2193.192	2-year	0.65	243.62	243.77	243.76	243.79	0.015420	0.54	1.21	20.53	0.71
Reach 5	2193.192	5-year	1.07	243.62	243.80	243.78	243.82	0.016293	0.58	1.84	29.08	0.74
Reach 5	2193.192	10-year	1.38	243.62	243.81	243.80	243.83	0.017802	0.63	2.17	32.03	0.78
Reach 5	2193.192	25-year	1.78	243.62	243.82	243.81	243.85	0.018541	0.68	2.62	35.67	0.80
Reach 5	2193.192	50-year	2.09	243.62	243.83	243.82	243.86	0.017762	0.71	2.96	37.14	0.80
Reach 5	2193.192	100-year	2.41	243.62	243.84	243.83	243.87	0.016883	0.72	3.33	38.70	0.79
Reach 5	2193.192	Regional	5.86	243.62	243.92	243.89	243.96	0.013012	0.88	6.67	48.73	0.75
Reach 5	2136.188	2-year	0.65	242.87	243.11		243.12	0.009380	0.48	1.36	18.92	0.57
Reach 5	2136.188	5-year	1.07	242.87	243.14	243.10	243.15	0.008911	0.56	1.91	20.10	0.58
Reach 5	2136.188	10-year	1.38	242.87	243.15	243.12	243.17	0.008140	0.60	2.30	20.64	0.57
Reach 5	2136.188	25-year	1.78	242.87	243.18	243.13	243.20	0.007790	0.65	2.78	23.81	0.57
Reach 5	2136.188	50-year	2.09	242.87	243.19	243.14	243.22	0.007871	0.66	3.24	28.41	0.58
Reach 5	2136.188	100-year	2.41	242.87	243.20	243.16	243.23	0.008058	0.70	3.57	29.62	0.59
Reach 5	2136.188	Regional	5.86	242.87	243.29		243.34	0.009195	0.99	6.55	39.00	0.68
Reach 5	2075.723	2-year	0.65	242.46	242.63		242.64	0.006657	0.48	1.56	21.82	0.50
Reach 5	2075.723	5-year	1.07	242.46	242.66		242.68	0.006950	0.57	2.31	28.26	0.53
Reach 5	2075.723	10-year	1.38	242.46	242.68		242.69	0.007757	0.64	2.72	30.30	0.57
Reach 5	2075.723	25-year	1.78	242.46	242.70		242.72	0.008177	0.70	3.31	33.39	0.59
Reach 5	2075.723	50-year	2.09	242.46	242.71		242.73	0.008167	0.73	3.73	34.19	0.60
Reach 5	2075.723	100-year	2.41	242.46	242.72		242.75	0.008024	0.77	4.17	35.02	0.60
Reach 5	2075.723	Regional	5.86	242.46	242.83		242.87	0.006718	0.99	8.42	40.94	0.60
Reach 5	2020.589	2-year	0.65	241.73	241.92	241.92	241.98	0.025920	1.05	0.62	5.72	1.01
Reach 5	2020.589	5-year	1.07	241.73	241.97	241.97	242.03	0.021409	1.11	1.00	9.53	0.96
Reach 5	2020.589	10-year	1.38	241.73	242.00	242.00	242.07	0.017047	1.14	1.38	14.82	0.88
Reach 5	2020.589	25-year	1.78	241.73	242.03	242.03	242.10	0.014870	1.19	1.89	17.84	0.85
Reach 5	2020.589	50-year	2.09	241.73	242.05	242.05	242.12	0.014566	1.25	2.20	18.59	0.85
Reach 5	2020.589	100-year	2.41	241.73	242.07	242.07	242.14	0.014535	1.30	2.50	18.98	0.86
Reach 5	2020.589	Regional	5.86	241.73	242.18	242.18	242.31	0.015618	1.78	4.91	21.94	0.96
Reach 5	1969.241	2-year	0.65	241.14	241.36	241.30	241.38	0.005968	0.56	1.17	9.11	0.50
Reach 5	1969.241	5-year	1.07	241.14	241.41	241.34	241.43	0.006718	0.65	1.65	11.24	0.54
Reach 5	1969.241	10-year	1.38	241.14	241.44	241.37	241.46	0.006937	0.69	1.99	12.79	0.56
Reach 5	1969.241	25-year	1.78	241.14	241.46	241.40	241.49	0.007745	0.78	2.29	14.02	0.60
Reach 5	1969.241	50-year	2.09	241.14	241.49	241.42	241.52	0.006960	0.79	2.72	18.16	0.58
Reach 5	1969.241	100-year	2.41	241.14	241.50	241.44	241.54	0.007066	0.84	3.03	19.13	0.59
Reach 5	1969.241	Regional	5.86	241.14	241.62	241.57	241.69	0.008188	1.22	5.60	23.66	0.68
Reach 5	1907.204	2-year	0.65	240.49	240.64	240.64	240.67	0.030032	0.78	0.83	13.16	1.00
Reach 5	1907.204	5-year	1.07	240.49	240.67	240.66	240.71	0.025239	0.87	1.23	14.79	0.96
Reach 5	1907.204	10-year	1.38	240.49	240.69	240.68	240.73	0.024780	0.90	1.52	16.92	0.96
Reach 5	1907.204	25-year	1.78	240.49	240.71	240.70	240.75	0.020802	0.92	1.94	18.49	0.90
Reach 5	1907.204	50-year	2.09	240.49	240.71	240.71	240.77	0.026140	1.04	2.00	18.69	1.02
Reach 5	1907.204	100-year	2.41	240.49	240.72	240.72	240.78	0.025593	1.08	2.24	19.59	1.02
Reach 5	1907.204	Regional	5.86	240.49	240.82	240.82	240.92	0.021347	1.40	4.19	21.73	1.01
Reach 5	1865.536	2-year	0.65	239.99	240.20		240.21	0.004761	0.35	1.88	26.00	0.41
Reach 5	1865.536	5-year	1.07	239.99	240.22		240.23	0.005565	0.43	2.50	28.23	0.46
Reach 5	1865.536	10-year	1.38	239.99	240.24		240.25	0.005694	0.48	2.92	28.96	0.47
Reach 5	1865.536	25-year	1.78	239.99	240.25		240.27	0.006459	0.55	3.31	29.53	0.51
Reach 5	1865.536	50-year	2.09	239.99	240.27		240.29	0.004942	0.54	4.00	30.51	0.46
Reach 5	1865.536	100-year	2.41	239.99	240.29		240.30	0.004848	0.56	4.41	31.09	0.46
Reach 5	1865.536	Regional	5.86	239.99	240.39		240.42	0.004912	0.80	7.71	32.40	0.51
Reach 5	1835.732	2-year	0.65	239.62	239.84	239.84	239.92	0.023723	1.22	0.54	4.10	1.02
Reach 5	1835.732	5-year	1.07	239.62	239.91	239.91	239.96	0.015122	1.01	1.46	18.71	0.82
Reach 5	1835.732	10-year	1.38	239.62	239.94	239.94	239.98	0.013351	1.05	1.96	21.52	0.79
Reach 5	1835.732	25-year	1.78	239.62	239.97	239.96	240.01	0.010002	1.03	2.77	24.11	0.70
Reach 5	1835.732	50-year	2.09	239.62	239.97	239.97	240.03	0.015951	1.27	2.61	23.60	0.88
Reach 5	1835.732	100-year	2.41	239.62	239.98	239.98	240.05	0.015819	1.32	2.95	24.63	0.89
Reach 5	1835.732	Regional	5.86	239.62	240.09	240.09	240.18	0.013808	1.62	6.64	36.11	0.89
Reach 5	1759.197	2-year	0.65	239.03	239.17		239.18	0.004497	0.40	1.76	21.88	0.41
Reach 5	1759.197	5-year	1.07	239.03	239.20		239.21	0.005305	0.50	2.35	23.33	0.46
Reach 5	1759.197	10-year	1.38	239.03	239.21		239.22	0.006903	0.59	2.57	24.19	0.53
Reach 5	1759.197	25-year	1.78	239.03	239.21	239.18	239.24	0.009975	0.73	2.71	24.97	0.65
Reach 5	1759.197	50-year	2.09	239.03	239.28		239.30	0.002989	0.53	4.59	28.25	0.38
Reach 5	1759.197	100-year	2.41	239.03	239.30	239.20	239.31	0.003077	0.56	5.02	28.92	0.39
Reach 5	1759.197	Regional	5.86	239.03	239.40		239.43	0.004370	0.87	8.20	32.39	0.50
Reach 5	1684.856	2-year	0.65	238.60	238.75	238.72	238.76	0.008461	0.45	1.74	28.65	0.54
Reach 5	1684.856	5-year	1.07	238.60	238.78		238.79	0.006990	0.51	2.59	31.72	0.52
Reach 5	1684.856	10-year	1.38	238.60	238.80		238.81	0.005068	0.51	3.42	33.04	0.46
Reach 5	1684.856	25-year	1.78	238.60	238.84		238.85	0.003536	0.50	4.59	34.33	0.40

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 5	1684.856	50-year	2.09	238.60	238.78	238.78	238.82	0.027051	1.00	2.59	31.71	1.02
Reach 5	1684.856	100-year	2.41	238.60	238.79	238.79	238.83	0.025671	1.04	2.90	32.21	1.01
Reach 5	1684.856	Regional	5.86	238.60	238.89		238.95	0.012670	1.16	6.57	35.36	0.79
Reach 5	1614.867	2-year	0.65	237.96	238.33		238.34	0.005491	0.57	1.43	15.94	0.48
Reach 5	1614.867	5-year	1.07	237.96	238.37		238.39	0.006017	0.69	2.13	21.18	0.53
Reach 5	1614.867	10-year	1.38	237.96	238.37	238.33	238.40	0.009148	0.87	2.21	21.52	0.65
Reach 5	1614.867	25-year	1.78	237.96	238.36	238.36	238.43	0.018276	1.19	2.05	20.85	0.92
Reach 5	1614.867	50-year	2.09	237.96	238.58		238.58	0.000833	0.44	8.17	38.61	0.22
Reach 5	1614.867	100-year	2.41	237.96	238.59		238.60	0.000936	0.47	8.77	41.00	0.24
Reach 5	1614.867	Regional	5.86	237.96	238.75		238.76	0.001202	0.67	15.56	43.27	0.29
Reach 5	1534.323	2-year	0.65	237.43	237.52	237.52	237.54	0.034759	0.68	0.96	20.94	1.02
Reach 5	1534.323	5-year	1.07	237.43	237.54	237.54	237.57	0.030627	0.75	1.42	24.12	1.00
Reach 5	1534.323	10-year	1.38	237.43	237.57		237.59	0.014772	0.64	2.15	27.47	0.73
Reach 5	1534.323	25-year	1.78	237.43	237.65		237.66	0.002296	0.38	4.84	35.60	0.32
Reach 5	1534.323	50-year	2.09	237.43	238.58		238.58	0.000003	0.05	44.25	48.81	0.02
Reach 5	1534.323	100-year	2.41	237.43	238.60		238.60	0.000004	0.06	45.01	49.16	0.02
Reach 5	1534.323	Regional	5.86	237.43	238.76		238.76	0.000015	0.13	53.26	53.48	0.04
Reach 5	1499.019	2-year	0.65	236.66	236.82	236.79	236.83	0.010378	0.54	1.21	15.66	0.61
Reach 5	1499.019	5-year	1.07	236.66	236.84	236.82	236.87	0.010641	0.65	1.68	18.20	0.64
Reach 5	1499.019	10-year	1.38	236.66	236.83	236.83	236.88	0.026551	0.95	1.46	16.70	1.00
Reach 5	1499.019	25-year	1.78	236.66	237.65		237.66	0.000012	0.09	26.16	38.29	0.03
Reach 5	1499.019	50-year	2.09	236.66	238.58		238.58	0.000001	0.05	68.40	53.26	0.01
Reach 5	1499.019	100-year	2.41	236.66	238.60		238.60	0.000002	0.05	69.24	53.52	0.01
Reach 5	1499.019	Regional	5.86	236.66	238.76		238.76	0.000007	0.12	78.23	59.59	0.03
Reach 5	1374.339	2-year	0.65	235.87	235.97	235.97	236.01	0.029171	0.83	0.79	11.32	1.00
Reach 5	1374.339	5-year	1.07	235.87	236.00	236.00	236.05	0.027662	0.91	1.17	13.94	1.00
Reach 5	1374.339	10-year	1.38	235.87	236.51		236.51	0.000030	0.10	15.74	36.20	0.04
Reach 5	1374.339	25-year	1.78	235.87	237.65		237.65	0.000001	0.04	70.72	57.81	0.01
Reach 5	1374.339	50-year	2.09	235.87	238.58		238.58	0.000000	0.02	132.46	80.27	0.00
Reach 5	1374.339	100-year	2.41	235.87	238.60		238.60	0.000000	0.03	133.72	80.78	0.01
Reach 5	1374.339	Regional	5.86	235.87	238.76		238.76	0.000001	0.07	147.65	93.14	0.01
Reach 5	1345.871	2-year	0.65	234.53	234.86		234.86	0.000543	0.23	2.78	13.28	0.16
Reach 5	1345.871	5-year	1.07	234.53	235.85		235.85	0.000003	0.05	23.30	26.25	0.02
Reach 5	1345.871	10-year	1.38	234.53	236.51		236.51	0.000001	0.04	43.12	33.60	0.01
Reach 5	1345.871	25-year	1.78	234.53	237.65		237.65	0.000000	0.03	89.23	46.66	0.01
Reach 5	1345.871	50-year	2.09	234.53	238.58		238.58	0.000000	0.02	138.99	64.88	0.00
Reach 5	1345.871	100-year	2.41	234.53	238.60		238.60	0.000000	0.03	140.01	65.47	0.00
Reach 5	1345.871	Regional	5.86	234.53	238.76		238.76	0.000001	0.06	151.16	75.15	0.01
Reach 5	1281.581	2-year	0.65	234.38	234.86		234.86	0.000010	0.05	13.90	39.01	0.03
Reach 5	1281.581	5-year	1.07	234.38	235.85		235.85	0.000000	0.02	61.75	56.10	0.01
Reach 5	1281.581	10-year	1.38	234.38	236.51		236.51	0.000000	0.02	101.62	65.59	0.00
Reach 5	1281.581	25-year	1.78	234.38	237.65		237.65	0.000000	0.01	192.27	94.69	0.00
Reach 5	1281.581	50-year	2.09	234.38	238.58		238.58	0.000000	0.01	297.78	129.76	0.00
Reach 5	1281.581	100-year	2.41	234.38	238.60		238.60	0.000000	0.01	299.81	130.71	0.00
Reach 5	1281.581	Regional	5.86	234.38	238.76		238.76	0.000000	0.03	321.95	146.80	0.00
Reach 4	1254.43	2-year	1.40	234.45	234.86		234.86	0.000021	0.06	22.19	67.87	0.03
Reach 4	1254.43	5-year	2.30	234.45	235.85		235.85	0.000001	0.03	97.23	84.16	0.01
Reach 4	1254.43	10-year	2.97	234.45	236.51		236.51	0.000000	0.02	157.33	99.06	0.00
Reach 4	1254.43	25-year	3.88	234.45	237.65		237.65	0.000000	0.02	286.96	126.19	0.00
Reach 4	1254.43	50-year	4.59	234.45	238.58		238.58	0.000000	0.01	411.71	142.97	0.00
Reach 4	1254.43	100-year	5.34	234.45	238.60		238.60	0.000000	0.02	413.95	143.32	0.00
Reach 4	1254.43	Regional	12.61	234.45	238.76		238.76	0.000000	0.04	437.96	158.18	0.01
Reach 4	1190	2-year	1.40	234.40	234.82	234.67	234.86	0.003188	0.80	1.74	59.28	0.43
Reach 4	1190	5-year	2.30	234.40	235.85	234.75	235.85	0.000090	0.33	6.87	74.22	0.09
Reach 4	1190	10-year	2.97	234.40	236.51	234.81	236.51	0.000041	0.29	10.15	85.32	0.07
Reach 4	1190	25-year	3.88	234.40	237.65	234.87	237.65	0.000016	0.24	15.88	101.01	0.04
Reach 4	1190	50-year	4.59	234.40	238.58	234.92	238.58	0.000009	0.22	20.51	120.63	0.04
Reach 4	1190	100-year	5.34	234.40	238.60	234.96	238.60	0.000000	0.02	353.42	120.90	0.00
Reach 4	1190	Regional	12.61	234.40	238.76	235.34	238.76	0.000000	0.04	374.18	138.36	0.01
Reach 4	1180		Culvert									
Reach 4	1132	2-year	1.40	232.23	234.50	232.52	234.50	0.000007	0.13	10.91	55.03	0.03
Reach 4	1132	5-year	2.30	232.23	234.88	232.59	234.88	0.000011	0.18	12.81	58.57	0.04
Reach 4	1132	10-year	2.97	232.23	234.88	232.65	234.88	0.000019	0.23	12.81	58.56	0.05
Reach 4	1132	25-year	3.88	232.23	234.88	232.71	234.88	0.000032	0.30	12.80	58.55	0.06
Reach 4	1132	50-year	4.59	232.23	234.88	232.76	234.88	0.000045	0.36	12.80	58.54	0.07
Reach 4	1132	100-year	5.34	232.23	234.87	232.81	234.88	0.000061	0.42	12.79	58.53	0.08
Reach 4	1132	Regional	12.61	232.23	234.85	233.18	234.90	0.000353	1.00	12.65	58.32	0.20

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	1125	2-year	1.40	232.13	234.50		234.50	0.000000	0.02	87.53	48.81	0.00
Reach 4	1125	5-year	2.30	232.13	234.88		234.88	0.000000	0.02	107.34	55.88	0.00
Reach 4	1125	10-year	2.97	232.13	234.88		234.88	0.000000	0.03	107.34	55.88	0.01
Reach 4	1125	25-year	3.88	232.13	234.88		234.88	0.000001	0.04	107.34	55.88	0.01
Reach 4	1125	50-year	4.59	232.13	234.88		234.88	0.000001	0.05	107.34	55.88	0.01
Reach 4	1125	100-year	5.34	232.13	234.88		234.88	0.000001	0.06	107.34	55.88	0.01
Reach 4	1125	Regional	12.61	232.13	234.88		234.88	0.000006	0.13	107.36	55.88	0.03
Reach 4	1105.427	2-year	1.40	232.05	234.50		234.50	0.000000	0.02	84.93	48.67	0.00
Reach 4	1105.427	5-year	2.30	232.05	234.88		234.88	0.000000	0.03	105.02	55.81	0.01
Reach 4	1105.427	10-year	2.97	232.05	234.88		234.88	0.000000	0.04	105.02	55.81	0.01
Reach 4	1105.427	25-year	3.88	232.05	234.88		234.88	0.000001	0.05	105.02	55.81	0.01
Reach 4	1105.427	50-year	4.59	232.05	234.88		234.88	0.000001	0.06	105.02	55.81	0.01
Reach 4	1105.427	100-year	5.34	232.05	234.88		234.88	0.000001	0.07	105.02	55.81	0.01
Reach 4	1105.427	Regional	12.61	232.05	234.88		234.88	0.000008	0.16	105.02	55.81	0.03
Reach 4	1064.597	2-year	1.40	231.65	234.50		234.50	0.000000	0.02	108.33	54.67	0.00
Reach 4	1064.597	5-year	2.30	231.65	234.88		234.88	0.000000	0.02	130.48	61.62	0.00
Reach 4	1064.597	10-year	2.97	231.65	234.88		234.88	0.000000	0.03	130.48	61.62	0.01
Reach 4	1064.597	25-year	3.88	231.65	234.88		234.88	0.000000	0.04	130.48	61.62	0.01
Reach 4	1064.597	50-year	4.59	231.65	234.88		234.88	0.000001	0.05	130.48	61.62	0.01
Reach 4	1064.597	100-year	5.34	231.65	234.88		234.88	0.000001	0.05	130.48	61.62	0.01
Reach 4	1064.597	Regional	12.61	231.65	234.88		234.88	0.000005	0.13	130.48	61.62	0.02
Reach 4	1047.971	2-year	1.40	230.98	234.50		234.50	0.000000	0.01	155.61	69.15	0.00
Reach 4	1047.971	5-year	2.30	230.98	234.88		234.88	0.000000	0.02	183.60	79.11	0.00
Reach 4	1047.971	10-year	2.97	230.98	234.88		234.88	0.000000	0.02	183.60	79.11	0.00
Reach 4	1047.971	25-year	3.88	230.98	234.88		234.88	0.000000	0.03	183.60	79.11	0.00
Reach 4	1047.971	50-year	4.59	230.98	234.88		234.88	0.000000	0.03	183.60	79.11	0.01
Reach 4	1047.971	100-year	5.34	230.98	234.88		234.88	0.000000	0.04	183.60	79.11	0.01
Reach 4	1047.971	Regional	12.61	230.98	234.88		234.88	0.000002	0.09	183.61	79.11	0.02
Reach 4	1000.841	2-year	1.40	230.30	234.50		234.50	0.000000	0.01	170.57	72.63	0.00
Reach 4	1000.841	5-year	2.30	230.30	234.88		234.88	0.000000	0.02	200.03	82.87	0.00
Reach 4	1000.841	10-year	2.97	230.30	234.88		234.88	0.000000	0.02	200.03	82.87	0.00
Reach 4	1000.841	25-year	3.88	230.30	234.88		234.88	0.000000	0.03	200.03	82.87	0.01
Reach 4	1000.841	50-year	4.59	230.30	234.88		234.88	0.000000	0.04	200.03	82.87	0.01
Reach 4	1000.841	100-year	5.34	230.30	234.88		234.88	0.000000	0.04	200.03	82.87	0.01
Reach 4	1000.841	Regional	12.61	230.30	234.88		234.88	0.000002	0.11	200.03	82.87	0.02
Reach 4	961.311	2-year	1.40	229.94	234.50		234.50	0.000000	0.01	225.40	98.81	0.00
Reach 4	961.311	5-year	2.30	229.94	234.88		234.88	0.000000	0.01	266.38	115.07	0.00
Reach 4	961.311	10-year	2.97	229.94	234.88		234.88	0.000000	0.02	266.38	115.07	0.00
Reach 4	961.311	25-year	3.88	229.94	234.88		234.88	0.000000	0.02	266.38	115.07	0.00
Reach 4	961.311	50-year	4.59	229.94	234.88		234.88	0.000000	0.03	266.38	115.07	0.00
Reach 4	961.311	100-year	5.34	229.94	234.88		234.88	0.000000	0.03	266.38	115.07	0.00
Reach 4	961.311	Regional	12.61	229.94	234.88		234.88	0.000001	0.08	266.39	115.07	0.01
Reach 4	914	2-year	1.68	229.38	234.50		234.50	0.000000	0.01	399.94	124.67	0.00
Reach 4	914	5-year	2.78	229.38	234.88		234.88	0.000000	0.01	451.28	143.94	0.00
Reach 4	914	10-year	3.59	229.38	234.88		234.88	0.000000	0.01	451.28	143.94	0.00
Reach 4	914	25-year	4.68	229.38	234.88		234.88	0.000000	0.02	451.28	143.94	0.00
Reach 4	914	50-year	5.56	229.38	234.88		234.88	0.000000	0.02	451.28	143.94	0.00
Reach 4	914	100-year	6.48	229.38	234.88		234.88	0.000000	0.02	451.28	143.94	0.00
Reach 4	914	Regional	15.89	229.38	234.88		234.88	0.000000	0.05	451.29	143.95	0.01
Reach 4	899	2-year	1.68	229.40	234.50		234.50	0.000000	0.01	375.45	120.13	0.00
Reach 4	899	5-year	2.78	229.40	234.88		234.88	0.000000	0.01	424.72	141.15	0.00
Reach 4	899	10-year	3.59	229.40	234.88		234.88	0.000000	0.01	424.72	141.15	0.00
Reach 4	899	25-year	4.68	229.40	234.88		234.88	0.000000	0.02	424.72	141.15	0.00
Reach 4	899	50-year	5.56	229.40	234.88		234.88	0.000000	0.02	424.72	141.15	0.00
Reach 4	899	100-year	6.48	229.40	234.88		234.88	0.000000	0.02	424.72	141.15	0.00
Reach 4	899	Regional	15.89	229.40	234.88		234.88	0.000000	0.05	424.73	141.15	0.01
Reach 4	879	2-year	1.68	229.42	234.50		234.50	0.000000	0.01	420.76	120.08	0.00
Reach 4	879	5-year	2.78	229.42	234.88		234.88	0.000000	0.01	473.07	154.97	0.00
Reach 4	879	10-year	3.59	229.42	234.88		234.88	0.000000	0.01	473.07	154.97	0.00
Reach 4	879	25-year	4.68	229.42	234.88		234.88	0.000000	0.01	473.08	154.97	0.00
Reach 4	879	50-year	5.56	229.42	234.88		234.88	0.000000	0.02	473.07	154.97	0.00
Reach 4	879	100-year	6.48	229.42	234.88		234.88	0.000000	0.02	473.08	154.97	0.00
Reach 4	879	Regional	15.89	229.42	234.88		234.88	0.000000	0.05	473.09	154.98	0.01
Reach 4	861	2-year	1.68	229.42	234.50		234.50	0.000000	0.01	367.96	118.21	0.00
Reach 4	861	5-year	2.78	229.42	234.88		234.88	0.000000	0.01	415.16	130.98	0.00
Reach 4	861	10-year	3.59	229.42	234.88		234.88	0.000000	0.01	415.16	130.98	0.00
Reach 4	861	25-year	4.68	229.42	234.88		234.88	0.000000	0.01	415.16	130.98	0.00

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	861	50-year	5.56	229.42	234.88		234.88	0.000000	0.02	415.16	130.98	0.00
Reach 4	861	100-year	6.48	229.42	234.88		234.88	0.000000	0.02	415.17	130.98	0.00
Reach 4	861	Regional	15.89	229.42	234.88		234.88	0.000000	0.05	415.17	130.98	0.01
Reach 4	846	2-year	1.68	229.43	234.50	229.57	234.50	0.000000	0.02	73.58	116.57	0.00
Reach 4	846	5-year	2.78	229.43	234.88	229.62	234.88	0.000000	0.04	79.14	128.53	0.00
Reach 4	846	10-year	3.59	229.43	234.88	229.64	234.88	0.000000	0.01	361.79	128.54	0.00
Reach 4	846	25-year	4.68	229.43	234.88	229.68	234.88	0.000000	0.06	79.14	128.53	0.01
Reach 4	846	50-year	5.56	229.43	234.88	229.70	234.88	0.000001	0.07	79.14	128.53	0.01
Reach 4	846	100-year	6.48	229.43	234.88	229.73	234.88	0.000001	0.08	79.13	128.53	0.01
Reach 4	846	Regional	15.89	229.43	234.88	229.95	234.88	0.000005	0.20	79.11	128.48	0.03
Reach 4	800		Culvert									
Reach 4	790	2-year	1.90	228.79	229.14	229.14	229.28	0.017824	1.63	1.21	46.56	0.98
Reach 4	790	5-year	3.10	228.79	229.25	229.25	229.43	0.016333	1.93	1.69	49.22	0.99
Reach 4	790	10-year	3.98	228.79	229.31	229.31	229.53	0.015443	2.09	2.00	50.30	0.99
Reach 4	790	25-year	5.16	228.79	229.39	229.39	229.65	0.014993	2.29	2.37	51.29	1.00
Reach 4	790	50-year	6.11	228.79	229.45	229.45	229.74	0.014684	2.44	2.64	52.04	1.01
Reach 4	790	100-year	7.08	228.79	229.51	229.51	229.83	0.014102	2.55	2.93	52.81	1.01
Reach 4	790	Regional	20.85	228.79	230.18	230.18	230.84	0.011361	3.66	6.01	56.54	1.02
Reach 4	763	2-year	1.90	228.45	228.82		228.83	0.001553	0.46	5.89	30.40	0.29
Reach 4	763	5-year	3.10	228.45	228.92		228.93	0.001211	0.51	9.05	33.11	0.27
Reach 4	763	10-year	3.98	228.45	228.98		228.99	0.001101	0.54	11.26	36.39	0.26
Reach 4	763	25-year	5.16	228.45	229.06		229.07	0.000935	0.55	14.19	37.38	0.25
Reach 4	763	50-year	6.11	228.45	229.12		229.13	0.000843	0.57	16.49	38.13	0.24
Reach 4	763	100-year	7.08	228.45	229.18		229.19	0.000772	0.58	18.75	38.86	0.23
Reach 4	763	Regional	20.85	228.45	229.85		229.87	0.000414	0.69	46.31	42.10	0.19
Reach 4	727	2-year	1.90	228.36	228.79	228.58	228.79	0.000647	0.31	6.12	22.28	0.19
Reach 4	727	5-year	3.10	228.36	228.89	228.62	228.90	0.000615	0.38	8.45	23.01	0.19
Reach 4	727	10-year	3.98	228.36	228.95	228.65	228.96	0.000596	0.41	9.98	23.47	0.19
Reach 4	727	25-year	5.16	228.36	229.03	228.68	229.05	0.000573	0.45	11.91	23.99	0.20
Reach 4	727	50-year	6.11	228.36	229.10	228.71	229.11	0.000557	0.48	13.39	24.35	0.20
Reach 4	727	100-year	7.08	228.36	229.16	228.73	229.17	0.000541	0.50	14.85	24.69	0.20
Reach 4	727	Regional	20.85	228.36	229.83	228.96	229.85	0.000403	0.69	35.25	35.65	0.19
Reach 4	692.338	2-year	1.90	228.35	228.62	228.62	228.71	0.018333	1.40	1.52	34.26	0.96
Reach 4	692.338	5-year	3.10	228.35	228.69	228.69	228.82	0.016917	1.64	2.17	35.81	0.97
Reach 4	692.338	10-year	3.98	228.35	228.74	228.74	228.88	0.016245	1.77	2.59	36.56	0.97
Reach 4	692.338	25-year	5.16	228.35	228.79	228.79	228.97	0.015907	1.94	3.07	38.11	0.99
Reach 4	692.338	50-year	6.11	228.35	228.84	228.84	229.03	0.015696	2.06	3.43	39.07	1.00
Reach 4	692.338	100-year	7.08	228.35	228.88	228.88	229.09	0.015453	2.17	3.78	39.93	1.00
Reach 4	692.338	Regional	20.85	228.35	229.32	229.32	229.76	0.013470	3.15	7.69	46.19	1.04
Reach 4	670		Culvert									
Reach 4	638.888	2-year	1.70	227.81	228.07	228.01	228.11	0.006325	0.82	2.19	29.46	0.56
Reach 4	638.888	5-year	2.79	227.81	228.12	228.07	228.18	0.009012	1.11	2.66	30.94	0.69
Reach 4	638.888	10-year	4.90	227.81	228.17	228.15	228.30	0.014769	1.61	3.24	34.96	0.91
Reach 4	638.888	25-year	6.36	227.81	228.21	228.21	228.38	0.016815	1.86	3.65	37.83	0.99
Reach 4	638.888	50-year	7.51	227.81	228.25	228.25	228.44	0.016215	1.96	4.08	39.55	0.99
Reach 4	638.888	100-year	8.69	227.81	228.29	228.29	228.50	0.016133	2.07	4.47	40.33	1.01
Reach 4	638.888	Regional	23.84	227.81	228.69	228.69	229.09	0.013353	2.91	8.73	45.34	1.02
Reach 4	638.543	2-year	1.70	227.84	228.00		228.02	0.009998	0.79	3.61	46.03	0.66
Reach 4	638.543	5-year	2.79	227.84	228.03		228.06	0.011041	0.94	5.02	47.07	0.72
Reach 4	638.543	10-year	4.90	227.84	228.08		228.11	0.011455	1.12	7.29	47.43	0.76
Reach 4	638.543	25-year	6.36	227.84	228.10		228.15	0.011997	1.24	8.52	47.61	0.79
Reach 4	638.543	50-year	7.51	227.84	228.12		228.17	0.011771	1.30	9.56	47.77	0.80
Reach 4	638.543	100-year	8.69	227.84	228.14		228.20	0.011616	1.35	10.55	47.91	0.80
Reach 4	638.543	Regional	23.84	227.84	228.37		228.46	0.009478	1.78	21.41	49.49	0.79
Reach 4	618.4043	2-year	1.70	227.68	227.76	227.74	227.78	0.029823	0.77	2.66	33.01	0.99
Reach 4	618.4043	5-year	2.79	227.68	227.79	227.76	227.82	0.024255	0.93	3.80	33.72	0.96
Reach 4	618.4043	10-year	4.90	227.68	227.85		227.89	0.019645	1.13	5.69	34.88	0.93
Reach 4	618.4043	25-year	6.36	227.68	227.88		227.93	0.017443	1.23	6.93	35.62	0.91
Reach 4	618.4043	50-year	7.51	227.68	227.91		227.96	0.016675	1.30	7.79	36.12	0.91
Reach 4	618.4043	100-year	8.69	227.68	227.93		227.99	0.016026	1.37	8.63	36.61	0.91
Reach 4	618.4043	Regional	23.84	227.68	228.15		228.28	0.013188	1.95	17.46	41.26	0.92
Reach 4	589.1152	2-year	1.70	227.07	227.33	227.30	227.35	0.008460	0.70	4.01	40.05	0.60
Reach 4	589.1152	5-year	2.79	227.07	227.36	227.33	227.39	0.009627	0.85	5.31	40.37	0.66
Reach 4	589.1152	10-year	4.90	227.07	227.41	227.37	227.44	0.011851	1.08	7.13	40.80	0.76
Reach 4	589.1152	25-year	6.36	227.07	227.43	227.39	227.48	0.013545	1.22	8.06	41.02	0.82
Reach 4	589.1152	50-year	7.51	227.07	227.45	227.41	227.50	0.014545	1.31	8.75	41.18	0.86

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	589.1152	100-year	8.69	227.07	227.46	227.42	227.52	0.015490	1.40	9.41	41.34	0.90
Reach 4	589.1152	Regional	23.84	227.07	227.61	227.59	227.77	0.023317	2.33	15.46	42.98	1.19
Reach 4	540.9416	2-year	1.70	226.72	226.77	226.75	226.79	0.033527	0.56	2.77	38.23	0.95
Reach 4	540.9416	5-year	2.79	226.72	226.80	226.78	226.83	0.026643	0.79	4.20	43.53	0.96
Reach 4	540.9416	10-year	4.90	226.72	226.86		226.89	0.019172	1.00	6.95	50.89	0.90
Reach 4	540.9416	25-year	6.36	226.72	226.90		226.93	0.016116	1.08	8.72	51.05	0.86
Reach 4	540.9416	50-year	7.51	226.72	226.92		226.95	0.014739	1.13	9.97	51.17	0.84
Reach 4	540.9416	100-year	8.69	226.72	226.94		226.98	0.013694	1.18	11.18	51.27	0.82
Reach 4	540.9416	Regional	23.84	226.72	227.20		227.25	0.008459	1.57	24.24	52.43	0.74
Reach 4	487.0009	2-year	1.70	226.22	226.35		226.36	0.003307	0.41	5.53	35.60	0.37
Reach 4	487.0009	5-year	2.79	226.22	226.41		226.41	0.003402	0.53	7.43	36.67	0.40
Reach 4	487.0009	10-year	4.90	226.22	226.48		226.50	0.003615	0.69	10.34	38.17	0.44
Reach 4	487.0009	25-year	6.36	226.22	226.53		226.55	0.003685	0.78	12.11	39.14	0.45
Reach 4	487.0009	50-year	7.51	226.22	226.56		226.58	0.003741	0.84	13.39	39.83	0.47
Reach 4	487.0009	100-year	8.69	226.22	226.59		226.62	0.003767	0.90	14.66	40.49	0.47
Reach 4	487.0009	Regional	23.84	226.22	226.90		226.94	0.003938	1.37	27.69	45.74	0.54
Reach 4	459.8704	2-year	1.70	225.93	226.09	226.09	226.14	0.026503	0.98	1.73	17.72	1.01
Reach 4	459.8704	5-year	2.79	225.93	226.13	226.13	226.20	0.024030	1.12	2.50	20.82	1.00
Reach 4	459.8704	10-year	4.90	225.93	226.19	226.19	226.28	0.020148	1.33	3.85	23.88	0.98
Reach 4	459.8704	25-year	6.36	225.93	226.23	226.23	226.33	0.018957	1.44	4.69	25.01	0.98
Reach 4	459.8704	50-year	7.51	225.93	226.25	226.25	226.37	0.018000	1.51	5.35	25.86	0.97
Reach 4	459.8704	100-year	8.69	225.93	226.28	226.28	226.40	0.017517	1.58	5.97	26.64	0.97
Reach 4	459.8704	Regional	23.84	225.93	226.52	226.52	226.73	0.013756	2.14	13.34	34.51	0.96
Reach 4	428.8159	2-year	1.70	225.43	225.71		225.72	0.003274	0.57	3.36	21.09	0.40
Reach 4	428.8159	5-year	2.79	225.43	225.77		225.79	0.003439	0.69	4.75	24.14	0.43
Reach 4	428.8159	10-year	4.90	225.43	225.86		225.90	0.003440	0.85	7.26	28.44	0.45
Reach 4	428.8159	25-year	6.36	225.43	225.91		225.95	0.003645	0.95	8.66	30.38	0.47
Reach 4	428.8159	50-year	7.51	225.43	225.95		226.00	0.003490	0.99	10.00	32.11	0.47
Reach 4	428.8159	100-year	8.69	225.43	225.98		226.03	0.003812	1.08	10.86	33.91	0.50
Reach 4	428.8159	Regional	23.84	225.43	226.26		226.36	0.004589	1.61	22.41	46.43	0.59
Reach 4	394.871	2-year	1.70	225.26	225.44	225.43	225.49	0.020738	1.05	1.70	15.34	0.93
Reach 4	394.871	5-year	2.79	225.26	225.49	225.48	225.56	0.018500	1.23	2.50	17.63	0.93
Reach 4	394.871	10-year	4.90	225.26	225.55	225.55	225.66	0.017950	1.50	3.80	20.56	0.97
Reach 4	394.871	25-year	6.36	225.26	225.61	225.61	225.72	0.015476	1.58	4.91	23.66	0.93
Reach 4	394.871	50-year	7.51	225.26	225.62	225.62	225.76	0.017415	1.74	5.34	24.54	0.99
Reach 4	394.871	100-year	8.69	225.26	225.68	225.68	225.80	0.013403	1.69	6.79	31.65	0.89
Reach 4	394.871	Regional	23.84	225.26	225.93	225.93	226.12	0.011597	2.24	16.62	45.16	0.91
Reach 4	349.2437	2-year	1.70	224.34	224.62	224.60	224.68	0.015498	1.12	1.63	12.13	0.85
Reach 4	349.2437	5-year	2.79	224.34	224.67	224.67	224.76	0.016600	1.38	2.33	14.57	0.92
Reach 4	349.2437	10-year	4.90	224.34	224.76	224.76	224.88	0.015112	1.64	3.74	17.20	0.93
Reach 4	349.2437	25-year	6.36	224.34	224.81	224.81	224.95	0.014423	1.77	4.66	18.72	0.93
Reach 4	349.2437	50-year	7.51	224.34	224.84	224.84	224.99	0.014151	1.86	5.35	19.78	0.93
Reach 4	349.2437	100-year	8.69	224.34	224.88	224.88	225.04	0.013768	1.94	6.05	20.72	0.93
Reach 4	349.2437	Regional	23.84	224.34	225.19	225.19	225.45	0.012503	2.64	13.77	28.64	0.97
Reach 4	315.6893	2-year	1.70	223.71	223.98	223.98	224.06	0.022478	1.22	1.41	9.90	1.00
Reach 4	315.6893	5-year	2.79	223.71	224.04	224.04	224.14	0.019751	1.43	2.03	11.02	0.99
Reach 4	315.6893	10-year	4.90	223.71	224.14	224.14	224.28	0.016673	1.68	3.18	12.95	0.97
Reach 4	315.6893	25-year	6.36	223.71	224.19	224.19	224.35	0.015487	1.81	3.95	14.09	0.96
Reach 4	315.6893	50-year	7.51	223.71	224.23	224.23	224.41	0.014818	1.90	4.54	14.90	0.95
Reach 4	315.6893	100-year	8.69	223.71	224.27	224.27	224.46	0.014137	1.98	5.15	15.70	0.95
Reach 4	315.6893	Regional	23.84	223.71	224.63	224.63	224.94	0.011850	2.69	11.98	22.52	0.96
Reach 4	275.2624	2-year	1.70	223.35	223.67		223.68	0.001941	0.51	3.48	16.20	0.32
Reach 4	275.2624	5-year	2.79	223.35	223.76		223.78	0.001743	0.60	5.18	19.20	0.32
Reach 4	275.2624	10-year	4.90	223.35	223.90		223.93	0.001645	0.72	8.10	22.96	0.33
Reach 4	275.2624	25-year	6.36	223.35	223.98		224.01	0.001614	0.79	9.97	25.00	0.33
Reach 4	275.2624	50-year	7.51	223.35	224.04		224.07	0.001603	0.84	11.37	26.43	0.34
Reach 4	275.2624	100-year	8.69	223.35	224.09		224.12	0.001600	0.88	12.75	27.77	0.34
Reach 4	275.2624	Regional	23.84	223.35	224.54		224.60	0.001683	1.27	28.04	40.82	0.38
Reach 4	229.0522	2-year	1.70	223.05	223.40	223.38	223.48	0.014720	1.34	1.44	8.23	0.87
Reach 4	229.0522	5-year	2.79	223.05	223.47	223.47	223.59	0.015395	1.63	2.08	9.85	0.93
Reach 4	229.0522	10-year	4.90	223.05	223.59	223.59	223.75	0.013347	1.90	3.49	12.99	0.92
Reach 4	229.0522	25-year	6.36	223.05	223.66	223.66	223.84	0.012718	2.04	4.43	14.74	0.92
Reach 4	229.0522	50-year	7.51	223.05	223.71	223.71	223.89	0.012295	2.13	5.17	15.98	0.91
Reach 4	229.0522	100-year	8.69	223.05	223.75	223.75	223.95	0.011891	2.21	5.93	17.17	0.91
Reach 4	229.0522	Regional	23.84	223.05	224.14	224.14	224.42	0.010724	2.92	14.54	27.47	0.94
Reach 4	173.0601	2-year	1.70	222.67	222.96		222.99	0.005581	0.74	2.51	16.29	0.52
Reach 4	173.0601	5-year	2.79	222.67	223.04		223.07	0.004842	0.85	3.85	19.25	0.51

HEC-RAS Plan: ModEx_Feb2024_12hr_WithBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	173.0601	10-year	4.90	222.67	223.15		223.19	0.004321	1.01	6.24	23.62	0.51
Reach 4	173.0601	25-year	6.36	222.67	223.21		223.26	0.004070	1.08	7.85	26.16	0.51
Reach 4	173.0601	50-year	7.51	222.67	223.26		223.31	0.003948	1.13	9.08	28.16	0.51
Reach 4	173.0601	100-year	8.69	222.67	223.30		223.36	0.003837	1.18	10.33	30.06	0.51
Reach 4	173.0601	Regional	23.84	222.67	223.68		223.77	0.003363	1.58	24.54	44.43	0.52
Reach 4	153.1	2-year	1.70	222.33	222.72	222.67	222.77	0.007125	1.16	2.43	12.82	0.64
Reach 4	153.1	5-year	2.79	222.33	222.80	222.74	222.86	0.007706	1.39	3.53	15.16	0.69
Reach 4	153.1	10-year	4.90	222.33	222.91	222.85	222.99	0.008163	1.68	5.38	17.96	0.74
Reach 4	153.1	25-year	6.36	222.33	222.97	222.90	223.07	0.008568	1.85	6.47	19.40	0.77
Reach 4	153.1	50-year	7.51	222.33	223.01	222.94	223.12	0.008790	1.96	7.30	20.42	0.79
Reach 4	153.1	100-year	8.69	222.33	223.05	222.98	223.16	0.008974	2.06	8.13	21.51	0.81
Reach 4	153.1	Regional	23.84	222.33	223.41	223.32	223.59	0.009294	2.80	17.67	30.69	0.88
Reach 4	137.87	2-year	1.70	221.96	222.27	222.26	222.34	0.020766	1.16	1.47	9.78	0.96
Reach 4	137.87	5-year	2.79	221.96	222.33	222.32	222.42	0.019336	1.37	2.06	10.99	0.97
Reach 4	137.87	10-year	4.90	221.96	222.41	222.41	222.55	0.017477	1.66	3.11	12.84	0.98
Reach 4	137.87	25-year	6.36	221.96	222.47	222.47	222.63	0.016102	1.78	3.85	14.00	0.97
Reach 4	137.87	50-year	7.51	221.96	222.51	222.51	222.68	0.015312	1.87	4.43	14.83	0.96
Reach 4	137.87	100-year	8.69	221.96	222.55	222.55	222.73	0.014660	1.95	5.01	15.63	0.96
Reach 4	137.87	Regional	23.84	221.96	222.93	222.93	223.21	0.010558	2.53	12.68	26.08	0.90
Reach 4	99.65	2-year	1.70	221.71	221.94	221.85	221.96	0.003396	0.50	3.37	20.21	0.39
Reach 4	99.65	5-year	2.79	221.71	222.00	221.89	222.02	0.003731	0.61	4.59	22.52	0.43
Reach 4	99.65	10-year	4.90	221.71	222.08	221.96	222.11	0.004094	0.78	6.37	25.31	0.47
Reach 4	99.65	25-year	6.36	221.71	222.12	222.00	222.16	0.004309	0.88	7.45	26.87	0.50
Reach 4	99.65	50-year	7.51	221.71	222.15	222.02	222.19	0.004429	0.95	8.27	27.99	0.51
Reach 4	99.65	100-year	8.69	221.71	222.18	222.04	222.23	0.004544	1.01	9.08	29.01	0.52
Reach 4	99.65	Regional	23.84	221.71	222.43	222.29	222.55	0.005470	1.56	17.70	37.64	0.63
Reach 4	11.71822	2-year	1.70	221.55	221.59	221.59	221.62	0.076044	0.76	1.99	27.27	1.40
Reach 4	11.71822	5-year	2.79	221.55	221.62	221.62	221.67	0.068527	1.09	2.78	27.91	1.48
Reach 4	11.71822	10-year	4.90	221.55	221.66	221.66	221.74	0.058774	1.44	4.13	28.96	1.49
Reach 4	11.71822	25-year	6.36	221.55	221.69	221.69	221.78	0.054345	1.60	4.97	29.59	1.49
Reach 4	11.71822	50-year	7.51	221.55	221.71	221.71	221.81	0.052886	1.70	5.55	30.03	1.50
Reach 4	11.71822	100-year	8.69	221.55	221.73	221.73	221.84	0.050155	1.78	6.18	30.50	1.48
Reach 4	11.71822	Regional	23.84	221.55	221.93	221.93	222.13	0.039513	2.58	12.58	34.73	1.49

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 6	1154.71	2-year	0.45	246.89	247.01	246.99	247.02	0.015503	0.52	0.87	15.70	0.70
Reach 6	1154.71	5-year	0.78	246.89	247.03	247.01	247.05	0.014045	0.60	1.30	17.52	0.70
Reach 6	1154.71	10-year	1.01	246.89	247.05	247.03	247.07	0.013587	0.64	1.59	18.93	0.70
Reach 6	1154.71	25-year	1.33	246.89	247.07	247.04	247.09	0.012779	0.67	1.97	20.62	0.70
Reach 6	1154.71	50-year	1.57	246.89	247.08	247.05	247.10	0.012504	0.70	2.24	21.76	0.70
Reach 6	1154.71	100-year	1.82	246.89	247.09	247.06	247.12	0.012458	0.73	2.49	22.75	0.70
Reach 6	1154.71	Regional	3.50	246.89	247.15	247.12	247.19	0.011080	0.90	3.98	27.93	0.71
Reach 6	1064.02	2-year	0.45	245.66	245.76	245.75	245.77	0.012267	0.46	0.98	17.77	0.62
Reach 6	1064.02	5-year	0.78	245.66	245.78	245.77	245.80	0.013434	0.57	1.35	18.83	0.68
Reach 6	1064.02	10-year	1.01	245.66	245.80	245.78	245.82	0.013960	0.64	1.58	19.37	0.71
Reach 6	1064.02	25-year	1.33	245.66	245.81	245.79	245.84	0.014982	0.72	1.84	19.94	0.75
Reach 6	1064.02	50-year	1.57	245.66	245.82	245.80	245.85	0.015375	0.78	2.03	20.37	0.77
Reach 6	1064.02	100-year	1.82	245.66	245.83	245.81	245.86	0.015473	0.82	2.23	20.79	0.79
Reach 6	1064.02	Regional	3.50	245.66	245.88	245.87	245.94	0.017580	1.10	3.29	24.59	0.89
Reach 6	962.05	2-year	0.45	244.36	244.46	244.45	244.48	0.013647	0.50	0.89	15.18	0.66
Reach 6	962.05	5-year	0.78	244.36	244.49	244.47	244.51	0.012306	0.60	1.30	16.84	0.67
Reach 6	962.05	10-year	1.01	244.36	244.50	244.48	244.53	0.011834	0.66	1.57	17.83	0.67
Reach 6	962.05	25-year	1.33	244.36	244.52	244.50	244.55	0.011074	0.72	1.92	18.90	0.67
Reach 6	962.05	50-year	1.57	244.36	244.54	244.51	244.57	0.010785	0.76	2.17	19.57	0.67
Reach 6	962.05	100-year	1.82	244.36	244.55	244.52	244.58	0.010678	0.80	2.40	20.17	0.68
Reach 6	962.05	Regional	3.50	244.36	244.62		244.67	0.009455	0.99	4.05	25.57	0.68
Reach 6	881.96	2-year	0.45	243.45	243.60		243.62	0.009165	0.55	0.82	9.07	0.58
Reach 6	881.96	5-year	0.78	243.45	243.64	243.60	243.66	0.009721	0.66	1.18	10.50	0.62
Reach 6	881.96	10-year	1.01	243.45	243.66	243.62	243.69	0.009932	0.72	1.42	11.23	0.64
Reach 6	881.96	25-year	1.33	243.45	243.69		243.72	0.010333	0.78	1.69	12.03	0.67
Reach 6	881.96	50-year	1.57	243.45	243.70		243.74	0.010501	0.83	1.90	12.63	0.68
Reach 6	881.96	100-year	1.82	243.45	243.72		243.76	0.010459	0.86	2.11	13.23	0.69
Reach 6	881.96	Regional	3.50	243.45	243.80	243.76	243.86	0.011513	1.05	3.32	16.46	0.75
Reach 6	808.88	2-year	0.45	242.86	242.96		242.97	0.007657	0.35	1.29	25.01	0.49
Reach 6	808.88	5-year	0.78	242.86	242.98		242.99	0.007618	0.42	1.86	27.10	0.51
Reach 6	808.88	10-year	1.01	242.86	243.00		243.01	0.007689	0.43	2.34	32.61	0.52
Reach 6	808.88	25-year	1.33	242.86	243.01		243.02	0.007655	0.46	2.88	36.50	0.52
Reach 6	808.88	50-year	1.57	242.86	243.02		243.03	0.007806	0.49	3.22	37.78	0.53
Reach 6	808.88	100-year	1.82	242.86	243.03		243.04	0.007991	0.52	3.53	38.89	0.55
Reach 6	808.88	Regional	3.50	242.86	243.08		243.10	0.008196	0.64	5.48	44.61	0.58
Reach 6	744.83	2-year	0.45	241.99	242.07	242.07	242.10	0.031999	0.72	0.63	11.90	1.00
Reach 6	744.83	5-year	0.78	241.99	242.10	242.10	242.13	0.030996	0.85	0.91	13.23	1.03
Reach 6	744.83	10-year	1.01	241.99	242.11	242.11	242.15	0.029977	0.92	1.10	13.81	1.04
Reach 6	744.83	25-year	1.33	241.99	242.13	242.13	242.17	0.029935	0.88	1.52	20.35	1.02
Reach 6	744.83	50-year	1.57	241.99	242.14	242.14	242.19	0.028510	0.91	1.73	21.24	1.01
Reach 6	744.83	100-year	1.82	241.99	242.15	242.15	242.20	0.027294	0.94	1.93	21.74	1.01
Reach 6	744.83	Regional	3.50	241.99	242.20	242.20	242.27	0.024194	1.16	3.02	22.71	1.01
Reach 6	688	2-year	0.45	241.16	241.30		241.31	0.003942	0.37	1.22	13.28	0.38
Reach 6	688	5-year	0.78	241.16	241.34		241.35	0.004071	0.43	1.81	15.93	0.41
Reach 6	688	10-year	1.01	241.16	241.36		241.38	0.004382	0.48	2.12	16.70	0.43
Reach 6	688	25-year	1.33	241.16	241.39		241.40	0.004224	0.52	2.57	17.44	0.43
Reach 6	688	50-year	1.57	241.16	241.41		241.42	0.004237	0.55	2.87	17.92	0.44
Reach 6	688	100-year	1.82	241.16	241.42		241.44	0.004233	0.57	3.16	18.37	0.44
Reach 6	688	Regional	3.50	241.16	241.51		241.53	0.004544	0.74	4.72	19.75	0.48
Reach 8	25105	2-year	0.27	245.72	245.81	245.81	245.84	0.028317	0.73	0.37	6.32	0.96
Reach 8	25105	5-year	0.49	245.72	245.84	245.84	245.88	0.027218	0.86	0.57	7.25	0.98
Reach 8	25105	10-year	0.64	245.72	245.85	245.85	245.90	0.026137	0.92	0.69	7.79	0.99
Reach 8	25105	25-year	0.84	245.72	245.87	245.87	245.92	0.024893	0.98	0.86	8.44	0.98
Reach 8	25105	50-year	1.00	245.72	245.89	245.89	245.94	0.024663	1.03	0.97	8.87	0.99
Reach 8	25105	100-year	1.16	245.72	245.90	245.90	245.96	0.023793	1.06	1.10	9.31	0.98
Reach 8	25105	Regional	2.05	245.72	245.96	245.96	246.03	0.021401	1.20	1.71	11.25	0.98
Reach 8	25101	2-year	0.27	245.22	245.32		245.33	0.007296	0.43	0.64	8.66	0.50
Reach 8	25101	5-year	0.49	245.22	245.36		245.37	0.007517	0.52	0.95	9.84	0.54
Reach 8	25101	10-year	0.64	245.22	245.37		245.39	0.007668	0.57	1.13	10.48	0.55
Reach 8	25101	25-year	0.84	245.22	245.39		245.41	0.007895	0.62	1.36	11.23	0.57
Reach 8	25101	50-year	1.00	245.22	245.41		245.43	0.007958	0.65	1.53	11.75	0.58
Reach 8	25101	100-year	1.16	245.22	245.42		245.45	0.008134	0.69	1.68	12.22	0.59
Reach 8	25101	Regional	2.05	245.22	245.48		245.52	0.008769	0.83	2.48	14.47	0.64
Reach 8	25005	2-year	0.27	244.65	244.74	244.74	244.77	0.031431	0.73	0.37	6.83	1.00
Reach 8	25005	5-year	0.49	244.65	244.77	244.77	244.80	0.030031	0.79	0.62	9.67	1.00
Reach 8	25005	10-year	0.64	244.65	244.79	244.79	244.82	0.029133	0.84	0.76	10.51	1.00
Reach 8	25005	25-year	0.84	244.65	244.80	244.80	244.84	0.028213	0.90	0.93	11.50	1.01
Reach 8	25005	50-year	1.00	244.65	244.81	244.81	244.86	0.027961	0.95	1.05	11.96	1.02

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 8	25005	100-year	1.16	244.65	244.82	244.82	244.87	0.027045	0.98	1.18	12.29	1.01
Reach 8	25005	Regional	2.05	244.65	244.87	244.87	244.94	0.024351	1.14	1.80	13.82	1.01
Reach 8	24932.1	2-year	0.27	244.02	244.13	244.10	244.14	0.006561	0.37	0.75	11.87	0.47
Reach 8	24932.1	5-year	0.49	244.02	244.16	244.12	244.17	0.008020	0.47	1.05	13.26	0.53
Reach 8	24932.1	10-year	0.64	244.02	244.17	244.14	244.19	0.007435	0.50	1.27	13.82	0.53
Reach 8	24932.1	25-year	0.84	244.02	244.19	244.15	244.20	0.007777	0.56	1.50	14.36	0.55
Reach 8	24932.1	50-year	1.00	244.02	244.20	244.16	244.22	0.007988	0.60	1.65	14.80	0.57
Reach 8	24932.1	100-year	1.16	244.02	244.21	244.17	244.23	0.008205	0.65	1.80	15.28	0.58
Reach 8	24932.1	Regional	2.05	244.02	244.25	244.21	244.29	0.009242	0.84	2.52	17.47	0.65
Reach 8	24932	2-year	0.27	243.60	243.65	243.65	243.67	0.037762	0.55	0.49	15.69	1.00
Reach 8	24932	5-year	0.49	243.60	243.67	243.67	243.69	0.025902	0.62	0.80	17.02	0.89
Reach 8	24932	10-year	0.64	243.60	243.68	243.68	243.70	0.031250	0.73	0.89	17.22	0.99
Reach 8	24932	25-year	0.84	243.60	243.69	243.69	243.72	0.029207	0.79	1.08	17.57	0.99
Reach 8	24932	50-year	1.00	243.60	243.70	243.70	243.73	0.027732	0.83	1.22	17.83	0.98
Reach 8	24932	100-year	1.16	243.60	243.70	243.70	243.74	0.026783	0.88	1.36	18.08	0.98
Reach 8	24932	Regional	2.05	243.60	243.74	243.74	243.80	0.022443	1.04	2.08	19.33	0.96
Reach 8	24406	2-year	0.27	243.08	243.20	243.17	243.20	0.005395	0.32	0.92	17.23	0.42
Reach 8	24406	5-year	0.49	243.08	243.22	243.19	243.23	0.005606	0.40	1.33	18.39	0.45
Reach 8	24406	10-year	0.64	243.08	243.23	243.20	243.24	0.005767	0.45	1.57	19.07	0.47
Reach 8	24406	25-year	0.84	243.08	243.25	243.21	243.26	0.005906	0.50	1.88	20.12	0.48
Reach 8	24406	50-year	1.00	243.08	243.26	243.21	243.27	0.005980	0.54	2.10	20.79	0.50
Reach 8	24406	100-year	1.16	243.08	243.27	243.22	243.28	0.005994	0.57	2.32	21.36	0.50
Reach 8	24406	Regional	2.05	243.08	243.31		243.34	0.006562	0.73	3.34	23.35	0.55
Reach 8	24152	2-year	0.27	242.40	242.47	242.47	242.49	0.036101	0.59	0.47	13.21	0.99
Reach 8	24152	5-year	0.49	242.40	242.49	242.49	242.52	0.032790	0.68	0.72	15.07	0.99
Reach 8	24152	10-year	0.64	242.40	242.50	242.50	242.53	0.031441	0.72	0.88	16.36	0.99
Reach 8	24152	25-year	0.84	242.40	242.51	242.51	242.54	0.030024	0.77	1.09	17.51	0.99
Reach 8	24152	50-year	1.00	242.40	242.52	242.52	242.56	0.029518	0.81	1.23	18.44	1.00
Reach 8	24152	100-year	1.16	242.40	242.53	242.53	242.57	0.029627	0.84	1.38	19.41	1.01
Reach 8	24152	Regional	2.05	242.40	242.57	242.56	242.62	0.024821	0.98	2.09	20.47	0.98
Reach 8	24151	2-year	0.27	241.22	241.32	241.31	241.34	0.013445	0.52	0.53	8.58	0.66
Reach 8	24151	5-year	0.49	241.22	241.35		241.37	0.015079	0.65	0.75	9.34	0.74
Reach 8	24151	10-year	0.64	241.22	241.35	241.34	241.39	0.019887	0.78	0.82	9.60	0.85
Reach 8	24151	25-year	0.84	241.22	241.38	241.36	241.41	0.018220	0.80	1.05	10.97	0.83
Reach 8	24151	50-year	1.00	241.22	241.39	241.37	241.42	0.019768	0.86	1.15	11.57	0.87
Reach 8	24151	100-year	1.16	241.22	241.39	241.39	241.44	0.020976	0.92	1.26	11.99	0.91
Reach 8	24151	Regional	2.05	241.22	241.43	241.43	241.50	0.023841	1.17	1.76	12.90	1.01
Reach 6-Lower	629	2-year	0.62	240.55	240.71	240.71	240.74	0.026835	0.85	0.73	9.49	0.97
Reach 6-Lower	629	5-year	1.09	240.55	240.75	240.74	240.79	0.024536	0.91	1.20	13.06	0.96
Reach 6-Lower	629	10-year	1.46	240.55	240.78		240.82	0.020466	0.90	1.62	15.68	0.89
Reach 6-Lower	629	25-year	1.96	240.55	240.80	240.79	240.85	0.020921	0.99	1.98	16.98	0.92
Reach 6-Lower	629	50-year	2.37	240.55	240.82	240.81	240.87	0.019907	1.03	2.30	17.71	0.92
Reach 6-Lower	629	100-year	2.82	240.55	240.84	240.83	240.90	0.018987	1.07	2.63	18.45	0.91
Reach 6-Lower	629	Regional	5.55	240.55	240.93		241.01	0.015662	1.24	4.47	21.81	0.88
Reach 6-Lower	581.37	2-year	0.62	240.21	240.41		240.42	0.003387	0.34	1.82	19.70	0.36
Reach 6-Lower	581.37	5-year	1.09	240.21	240.45		240.46	0.003584	0.41	2.65	22.43	0.38
Reach 6-Lower	581.37	10-year	1.46	240.21	240.47		240.48	0.003960	0.47	3.09	23.28	0.41
Reach 6-Lower	581.37	25-year	1.96	240.21	240.50		240.51	0.003929	0.53	3.73	24.01	0.42
Reach 6-Lower	581.37	50-year	2.37	240.21	240.51		240.53	0.004044	0.57	4.17	24.49	0.43
Reach 6-Lower	581.37	100-year	2.82	240.21	240.53		240.55	0.004168	0.62	4.60	24.96	0.45
Reach 6-Lower	581.37	Regional	5.55	240.21	240.62		240.65	0.004764	0.84	6.82	27.54	0.51
Reach 6-Lower	522.55	2-year	0.62	239.81	239.92	239.92	239.95	0.036122	0.67	0.93	21.43	1.03
Reach 6-Lower	522.55	5-year	1.09	239.81	239.95	239.95	239.98	0.032541	0.75	1.45	25.89	1.02
Reach 6-Lower	522.55	10-year	1.46	239.81	239.96	239.96	239.99	0.026612	0.76	1.92	29.35	0.94
Reach 6-Lower	522.55	25-year	1.96	239.81	239.97	239.97	240.01	0.028705	0.87	2.26	29.70	1.01
Reach 6-Lower	522.55	50-year	2.37	239.81	239.99	239.98	240.03	0.027418	0.92	2.58	30.03	1.00
Reach 6-Lower	522.55	100-year	2.82	239.81	240.00	240.00	240.04	0.026260	0.97	2.91	30.37	1.00
Reach 6-Lower	522.55	Regional	5.55	239.81	240.05	240.05	240.12	0.021502	1.17	4.74	32.63	0.97
Reach 6-Lower	379.80	2-year	0.62	238.57	238.69	238.65	238.70	0.004155	0.33	1.90	25.57	0.38
Reach 6-Lower	379.80	5-year	1.09	238.57	238.72		238.73	0.004409	0.41	2.67	26.73	0.41
Reach 6-Lower	379.80	10-year	1.46	238.57	238.74	238.69	238.75	0.004428	0.45	3.21	27.51	0.42
Reach 6-Lower	379.80	25-year	1.96	238.57	238.76		238.78	0.004638	0.51	3.82	28.31	0.44
Reach 6-Lower	379.80	50-year	2.37	238.57	238.78		238.80	0.004707	0.55	4.29	28.68	0.46
Reach 6-Lower	379.80	100-year	2.82	238.57	238.80		238.81	0.004780	0.59	4.74	28.84	0.47
Reach 6-Lower	379.80	Regional	5.55	238.57	238.87		238.91	0.005161	0.79	7.03	29.64	0.52
Reach 6-Lower	289.21	2-year	0.62	237.90	238.06	238.05	238.08	0.015753	0.53	1.17	20.54	0.71
Reach 6-Lower	289.21	5-year	1.09	237.90	238.09	238.07	238.11	0.014189	0.63	1.73	21.68	0.71

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 6-Lower	289.21	10-year	1.46	237.90	238.11	238.08	238.13	0.013835	0.69	2.10	22.43	0.72
Reach 6-Lower	289.21	25-year	1.96	237.90	238.13		238.16	0.012752	0.73	2.66	24.53	0.71
Reach 6-Lower	289.21	50-year	2.37	237.90	238.15		238.18	0.012545	0.77	3.08	26.06	0.72
Reach 6-Lower	289.21	100-year	2.82	237.90	238.16		238.20	0.012059	0.80	3.50	26.92	0.71
Reach 6-Lower	289.21	Regional	5.55	237.90	238.24	238.20	238.29	0.010714	0.97	5.74	30.73	0.71
Reach 6-Lower	217.29	2-year	0.62	236.91	237.07	237.05	237.09	0.012387	0.65	0.95	10.29	0.68
Reach 6-Lower	217.29	5-year	1.09	236.91	237.12	237.08	237.15	0.013033	0.72	1.50	14.34	0.71
Reach 6-Lower	217.29	10-year	1.46	236.91	237.14	237.11	237.17	0.013281	0.80	1.82	15.17	0.74
Reach 6-Lower	217.29	25-year	1.96	236.91	237.16	237.14	237.20	0.014250	0.90	2.18	16.06	0.78
Reach 6-Lower	217.29	50-year	2.37	236.91	237.18	237.16	237.23	0.014363	0.96	2.47	16.57	0.80
Reach 6-Lower	217.29	100-year	2.82	236.91	237.20	237.17	237.25	0.014775	1.02	2.75	17.12	0.82
Reach 6-Lower	217.29	Regional	5.55	236.91	237.28	237.26	237.37	0.016094	1.29	4.29	20.65	0.89
Reach 6-Lower	175.22	2-year	0.62	235.75	235.87	235.87	235.90	0.029128	0.81	0.76	11.24	0.99
Reach 6-Lower	175.22	5-year	1.09	235.75	235.90	235.90	235.95	0.027440	0.96	1.14	12.41	1.01
Reach 6-Lower	175.22	10-year	1.46	235.75	235.92	235.92	235.97	0.026534	1.05	1.39	12.99	1.02
Reach 6-Lower	175.22	25-year	1.96	235.75	235.95	235.95	236.01	0.024062	1.12	1.75	13.77	1.00
Reach 6-Lower	175.22	50-year	2.37	235.75	235.96	235.96	236.04	0.023673	1.18	2.00	14.31	1.01
Reach 6-Lower	175.22	100-year	2.82	235.75	235.98	235.98	236.06	0.022695	1.24	2.27	14.69	1.01
Reach 6-Lower	175.22	Regional	5.55	235.75	236.07	236.07	236.19	0.020025	1.50	3.71	16.58	1.01
Reach 6-Lower	75.62	2-year	0.62	234.50	234.71		234.71	0.002299	0.33	1.86	15.72	0.31
Reach 6-Lower	75.62	5-year	1.09	234.50	234.76		234.77	0.002321	0.42	2.66	16.97	0.33
Reach 6-Lower	75.62	10-year	1.46	234.50	234.79		234.80	0.002385	0.47	3.19	17.75	0.34
Reach 6-Lower	75.62	25-year	1.96	234.50	234.82		234.84	0.002485	0.53	3.83	18.65	0.35
Reach 6-Lower	75.62	50-year	2.37	234.50	234.85		234.86	0.002529	0.57	4.32	19.31	0.36
Reach 6-Lower	75.62	100-year	2.82	234.50	234.87		234.89	0.002594	0.62	4.80	19.94	0.37
Reach 6-Lower	75.62	Regional	5.55	234.50	235.00		235.03	0.002762	0.82	7.44	22.13	0.41
Reach 6-Lower	17.67	2-year	0.62	234.42	234.66		234.66	0.000422	0.15	4.06	30.49	0.13
Reach 6-Lower	17.67	5-year	1.09	234.42	234.71		234.71	0.000518	0.21	5.41	30.92	0.16
Reach 6-Lower	17.67	10-year	1.46	234.42	234.73		234.74	0.000587	0.24	6.22	31.17	0.17
Reach 6-Lower	17.67	25-year	1.96	234.42	234.76		234.77	0.000668	0.28	7.17	31.46	0.18
Reach 6-Lower	17.67	50-year	2.37	234.42	234.79		234.79	0.000714	0.31	7.91	31.69	0.19
Reach 6-Lower	17.67	100-year	2.82	234.42	234.81		234.81	0.000770	0.34	8.60	31.90	0.20
Reach 6-Lower	17.67	Regional	5.55	234.42	234.93		234.94	0.000874	0.46	12.62	33.63	0.23
Reach 5	2480.223	2-year	0.62	246.13	246.31	246.26	246.33	0.006474	0.52	1.19	11.14	0.51
Reach 5	2480.223	5-year	1.08	246.13	246.36	246.30	246.38	0.006897	0.62	1.75	13.18	0.54
Reach 5	2480.223	10-year	1.43	246.13	246.39	246.33	246.41	0.007207	0.68	2.12	15.25	0.56
Reach 5	2480.223	25-year	1.90	246.13	246.42	246.35	246.44	0.007554	0.74	2.63	19.31	0.58
Reach 5	2480.223	50-year	2.26	246.13	246.43	246.37	246.46	0.007790	0.79	3.01	26.84	0.60
Reach 5	2480.223	100-year	2.63	246.13	246.45	246.39	246.48	0.008010	0.84	3.44	29.79	0.62
Reach 5	2480.223	Regional	5.86	246.13	246.54	246.50	246.60	0.008348	1.13	6.58	39.60	0.68
Reach 5	2413.965	2-year	0.62	245.66	245.78		245.79	0.010516	0.51	1.22	16.88	0.60
Reach 5	2413.965	5-year	1.08	245.66	245.81		245.83	0.010158	0.58	1.87	21.51	0.62
Reach 5	2413.965	10-year	1.43	245.66	245.83		245.85	0.010017	0.64	2.26	22.74	0.63
Reach 5	2413.965	25-year	1.90	245.66	245.85		245.87	0.009755	0.71	2.75	24.22	0.64
Reach 5	2413.965	50-year	2.26	245.66	245.86		245.89	0.009569	0.75	3.13	25.28	0.64
Reach 5	2413.965	100-year	2.63	245.66	245.88		245.91	0.009255	0.78	3.52	26.34	0.64
Reach 5	2413.965	Regional	5.86	245.66	245.97		246.02	0.008942	1.01	6.39	33.50	0.67
Reach 5	2353.877	2-year	0.62	245.34	245.47		245.48	0.003009	0.28	2.21	29.43	0.33
Reach 5	2353.877	5-year	1.08	245.34	245.51		245.51	0.003133	0.34	3.20	35.66	0.35
Reach 5	2353.877	10-year	1.43	245.34	245.52		245.53	0.003217	0.38	3.90	40.50	0.36
Reach 5	2353.877	25-year	1.90	245.34	245.54		245.55	0.003304	0.42	4.72	42.11	0.37
Reach 5	2353.877	50-year	2.26	245.34	245.56		245.57	0.003390	0.45	5.29	43.18	0.38
Reach 5	2353.877	100-year	2.63	245.34	245.57		245.58	0.003527	0.48	5.80	44.14	0.40
Reach 5	2353.877	Regional	5.86	245.34	245.65		245.67	0.004017	0.68	9.56	49.64	0.45
Reach 5	2307.004	2-year	0.62	245.12	245.24		245.24	0.010092	0.39	1.60	32.54	0.55
Reach 5	2307.004	5-year	1.08	245.12	245.26		245.27	0.009994	0.46	2.36	36.51	0.58
Reach 5	2307.004	10-year	1.43	245.12	245.27		245.28	0.010462	0.52	2.77	37.14	0.61
Reach 5	2307.004	25-year	1.90	245.12	245.28		245.30	0.010537	0.58	3.30	37.95	0.62
Reach 5	2307.004	50-year	2.26	245.12	245.29		245.31	0.009896	0.60	3.76	38.63	0.62
Reach 5	2307.004	100-year	2.63	245.12	245.31		245.33	0.009488	0.63	4.19	39.26	0.61
Reach 5	2307.004	Regional	5.86	245.12	245.39	245.33	245.42	0.007550	0.79	7.69	49.11	0.59
Reach 5	2247.605	2-year	0.62	244.45	244.56	244.54	244.57	0.012650	0.56	1.23	20.86	0.66
Reach 5	2247.605	5-year	1.08	244.45	244.59		244.61	0.012480	0.67	1.97	29.25	0.69
Reach 5	2247.605	10-year	1.43	244.45	244.61		244.63	0.011684	0.70	2.56	31.51	0.68
Reach 5	2247.605	25-year	1.90	244.45	244.62		244.65	0.011315	0.77	3.17	32.49	0.69
Reach 5	2247.605	50-year	2.26	244.45	244.63		244.66	0.012087	0.84	3.49	32.91	0.72
Reach 5	2247.605	100-year	2.63	244.45	244.64		244.68	0.012530	0.89	3.83	33.33	0.74
Reach 5	2247.605	Regional	5.86	244.45	244.71	244.70	244.78	0.016365	1.30	6.19	39.46	0.90

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 5	2193.192	2-year	0.62	243.62	243.77	243.75	243.79	0.016050	0.54	1.14	19.77	0.72
Reach 5	2193.192	5-year	1.08	243.62	243.80	243.78	243.82	0.016254	0.58	1.87	29.36	0.73
Reach 5	2193.192	10-year	1.43	243.62	243.81	243.80	243.83	0.017881	0.64	2.23	32.45	0.78
Reach 5	2193.192	25-year	1.90	243.62	243.83	243.81	243.85	0.018844	0.70	2.72	36.20	0.81
Reach 5	2193.192	50-year	2.26	243.62	243.84	243.83	243.86	0.017345	0.72	3.15	37.86	0.79
Reach 5	2193.192	100-year	2.63	243.62	243.85	243.84	243.88	0.016619	0.74	3.57	39.87	0.79
Reach 5	2193.192	Regional	5.86	243.62	243.92	243.89	243.96	0.013000	0.88	6.68	48.74	0.75
Reach 5	2136.188	2-year	0.62	242.87	243.11		243.12	0.009079	0.47	1.33	18.73	0.56
Reach 5	2136.188	5-year	1.08	242.87	243.14	243.10	243.15	0.008901	0.56	1.92	20.13	0.58
Reach 5	2136.188	10-year	1.43	242.87	243.16	243.12	243.18	0.008121	0.61	2.37	20.72	0.57
Reach 5	2136.188	25-year	1.90	242.87	243.19	243.14	243.21	0.007618	0.64	3.02	26.65	0.57
Reach 5	2136.188	50-year	2.26	242.87	243.20	243.15	243.22	0.007959	0.68	3.42	29.20	0.58
Reach 5	2136.188	100-year	2.63	242.87	243.21	243.16	243.24	0.008141	0.72	3.79	30.24	0.60
Reach 5	2136.188	Regional	5.86	242.87	243.29		243.34	0.009196	0.99	6.56	39.01	0.68
Reach 5	2075.723	2-year	0.62	242.46	242.63		242.64	0.006918	0.48	1.46	20.40	0.51
Reach 5	2075.723	5-year	1.08	242.46	242.66		242.68	0.006961	0.57	2.34	28.37	0.53
Reach 5	2075.723	10-year	1.43	242.46	242.68		242.70	0.007780	0.65	2.80	30.99	0.57
Reach 5	2075.723	25-year	1.90	242.46	242.70		242.72	0.008477	0.72	3.43	33.61	0.61
Reach 5	2075.723	50-year	2.26	242.46	242.71		242.74	0.008085	0.75	3.97	34.65	0.60
Reach 5	2075.723	100-year	2.63	242.46	242.73		242.75	0.007952	0.79	4.46	35.57	0.61
Reach 5	2075.723	Regional	5.86	242.46	242.83		242.87	0.006723	0.99	8.42	40.95	0.60
Reach 5	2020.589	2-year	0.62	241.73	241.92	241.92	241.97	0.024174	1.01	0.61	5.67	0.98
Reach 5	2020.589	5-year	1.08	241.73	241.97	241.97	242.04	0.021377	1.12	1.02	9.62	0.96
Reach 5	2020.589	10-year	1.43	241.73	242.01	242.01	242.07	0.016851	1.15	1.44	15.22	0.88
Reach 5	2020.589	25-year	1.90	241.73	242.04	242.04	242.11	0.014184	1.20	2.05	18.38	0.84
Reach 5	2020.589	50-year	2.26	241.73	242.06	242.06	242.13	0.014547	1.28	2.36	18.80	0.86
Reach 5	2020.589	100-year	2.63	241.73	242.08	242.08	242.16	0.014600	1.34	2.68	19.23	0.87
Reach 5	2020.589	Regional	5.86	241.73	242.18	242.18	242.31	0.015604	1.78	4.91	21.95	0.96
Reach 5	1969.241	2-year	0.62	241.14	241.35	241.30	241.37	0.006742	0.57	1.07	8.81	0.53
Reach 5	1969.241	5-year	1.08	241.14	241.41	241.34	241.43	0.006877	0.66	1.65	11.26	0.55
Reach 5	1969.241	10-year	1.43	241.14	241.44	241.37	241.47	0.006954	0.70	2.05	13.04	0.56
Reach 5	1969.241	25-year	1.90	241.14	241.48	241.41	241.51	0.006813	0.76	2.54	17.44	0.57
Reach 5	1969.241	50-year	2.26	241.14	241.50	241.43	241.53	0.007068	0.82	2.89	18.75	0.58
Reach 5	1969.241	100-year	2.63	241.14	241.51	241.45	241.55	0.007217	0.87	3.21	19.60	0.60
Reach 5	1969.241	Regional	5.86	241.14	241.62	241.57	241.69	0.008189	1.22	5.60	23.67	0.68
Reach 5	1907.204	2-year	0.62	240.49	240.64	240.64	240.67	0.022868	0.70	0.88	13.38	0.88
Reach 5	1907.204	5-year	1.08	240.49	240.67	240.66	240.71	0.024224	0.86	1.26	14.90	0.94
Reach 5	1907.204	10-year	1.43	240.49	240.69	240.69	240.73	0.024934	0.91	1.58	17.50	0.96
Reach 5	1907.204	25-year	1.90	240.49	240.70	240.70	240.76	0.026949	1.02	1.86	18.26	1.02
Reach 5	1907.204	50-year	2.26	240.49	240.72	240.72	240.78	0.025804	1.06	2.13	19.22	1.02
Reach 5	1907.204	100-year	2.63	240.49	240.73	240.73	240.79	0.024912	1.10	2.40	20.15	1.01
Reach 5	1907.204	Regional	5.86	240.49	240.82	240.82	240.92	0.021337	1.41	4.19	21.73	1.01
Reach 5	1865.536	2-year	0.62	239.99	240.19		240.20	0.005795	0.37	1.68	24.76	0.45
Reach 5	1865.536	5-year	1.08	239.99	240.22		240.23	0.005674	0.44	2.51	28.25	0.46
Reach 5	1865.536	10-year	1.43	239.99	240.24		240.25	0.005650	0.49	3.00	29.08	0.47
Reach 5	1865.536	25-year	1.90	239.99	240.26		240.28	0.005305	0.53	3.67	30.05	0.47
Reach 5	1865.536	50-year	2.26	239.99	240.28		240.29	0.005185	0.56	4.14	30.71	0.47
Reach 5	1865.536	100-year	2.63	239.99	240.29		240.31	0.005123	0.59	4.59	31.28	0.48
Reach 5	1865.536	Regional	5.86	239.99	240.39		240.42	0.005096	0.81	7.62	32.38	0.52
Reach 5	1835.732	2-year	0.62	239.62	239.87	239.83	239.91	0.016135	0.87	0.79	14.29	0.81
Reach 5	1835.732	5-year	1.08	239.62	239.92	239.92	239.96	0.014421	1.00	1.51	18.90	0.80
Reach 5	1835.732	10-year	1.43	239.62	239.94	239.94	239.99	0.013473	1.07	2.02	21.73	0.80
Reach 5	1835.732	25-year	1.90	239.62	239.96	239.96	240.02	0.014462	1.19	2.50	23.28	0.84
Reach 5	1835.732	50-year	2.26	239.62	239.98	239.97	240.04	0.014320	1.25	2.91	24.53	0.85
Reach 5	1835.732	100-year	2.63	239.62	240.00	239.99	240.06	0.014003	1.30	3.34	29.08	0.85
Reach 5	1835.732	Regional	5.86	239.62	240.10	240.09	240.18	0.012866	1.58	6.82	36.20	0.86
Reach 5	1759.197	2-year	0.62	239.03	239.16	239.13	239.17	0.006193	0.43	1.52	21.24	0.47
Reach 5	1759.197	5-year	1.08	239.03	239.19		239.20	0.006579	0.54	2.20	22.97	0.51
Reach 5	1759.197	10-year	1.43	239.03	239.21		239.23	0.006960	0.60	2.64	24.56	0.54
Reach 5	1759.197	25-year	1.90	239.03	239.23		239.25	0.007046	0.66	3.22	26.50	0.56
Reach 5	1759.197	50-year	2.26	239.03	239.25		239.27	0.007165	0.71	3.60	26.99	0.57
Reach 5	1759.197	100-year	2.63	239.03	239.26		239.29	0.007312	0.76	3.97	27.46	0.58
Reach 5	1759.197	Regional	5.86	239.03	239.35		239.40	0.007895	1.05	6.70	31.29	0.65
Reach 5	1684.856	2-year	0.62	238.60	238.76		238.76	0.005554	0.39	1.93	29.62	0.44
Reach 5	1684.856	5-year	1.08	238.60	238.79		238.80	0.005237	0.47	2.89	32.19	0.46
Reach 5	1684.856	10-year	1.43	238.60	238.81		238.82	0.005014	0.51	3.53	33.20	0.46
Reach 5	1684.856	25-year	1.90	238.60	238.83		238.84	0.004970	0.57	4.27	34.05	0.47

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 5	1684.856	50-year	2.26	238.60	238.84		238.86	0.004969	0.61	4.80	34.52	0.48
Reach 5	1684.856	100-year	2.63	238.60	238.86	238.79	238.88	0.004811	0.63	5.35	34.78	0.48
Reach 5	1684.856	Regional	5.86	238.60	238.97		239.00	0.004387	0.83	9.25	36.50	0.49
Reach 5	1614.867	2-year	0.62	237.96	238.31	238.24	238.33	0.009106	0.65	1.12	13.86	0.61
Reach 5	1614.867	5-year	1.08	237.96	238.35	238.32	238.38	0.009142	0.80	1.79	19.26	0.64
Reach 5	1614.867	10-year	1.43	237.96	238.37	238.34	238.41	0.009200	0.88	2.28	21.82	0.66
Reach 5	1614.867	25-year	1.90	237.96	238.40		238.44	0.009045	0.96	2.91	23.96	0.67
Reach 5	1614.867	50-year	2.26	237.96	238.42		238.46	0.008830	1.00	3.38	25.05	0.67
Reach 5	1614.867	100-year	2.63	237.96	238.44		238.48	0.008984	1.06	3.79	25.78	0.68
Reach 5	1614.867	Regional	5.86	237.96	238.54	238.50	238.61	0.009544	1.39	6.97	35.46	0.75
Reach 5	1534.323	2-year	0.62	237.43	237.54		237.55	0.013454	0.48	1.28	23.26	0.65
Reach 5	1534.323	5-year	1.08	237.43	237.56		237.58	0.014160	0.58	1.86	26.32	0.70
Reach 5	1534.323	10-year	1.43	237.43	237.57		237.59	0.014630	0.65	2.22	27.96	0.73
Reach 5	1534.323	25-year	1.90	237.43	237.59		237.61	0.015468	0.71	2.70	30.89	0.76
Reach 5	1534.323	50-year	2.26	237.43	237.60		237.63	0.016588	0.76	2.98	32.20	0.79
Reach 5	1534.323	100-year	2.63	237.43	237.61		237.64	0.016528	0.80	3.31	33.25	0.80
Reach 5	1534.323	Regional	5.86	237.43	237.67	237.66	237.73	0.017391	1.11	5.41	36.14	0.89
Reach 5	1499.019	2-year	0.62	236.66	236.79	236.79	236.82	0.032147	0.76	0.82	14.35	1.01
Reach 5	1499.019	5-year	1.08	236.66	236.82	236.82	236.86	0.028902	0.90	1.21	15.65	1.02
Reach 5	1499.019	10-year	1.43	236.66	236.83	236.83	236.88	0.026830	0.97	1.50	16.99	1.01
Reach 5	1499.019	25-year	1.90	236.66	236.86	236.86	236.91	0.024163	1.05	1.88	19.47	0.99
Reach 5	1499.019	50-year	2.26	236.66	236.87	236.87	236.93	0.021951	1.09	2.19	20.29	0.96
Reach 5	1499.019	100-year	2.63	236.66	236.88	236.88	236.95	0.021552	1.15	2.45	20.81	0.97
Reach 5	1499.019	Regional	5.86	236.66	236.98	236.98	237.08	0.017898	1.46	4.58	24.47	0.96
Reach 5	1374.339	2-year	0.62	235.87	236.01		236.02	0.007696	0.48	1.28	15.29	0.53
Reach 5	1374.339	5-year	1.08	235.87	236.05		236.07	0.007894	0.56	1.93	18.59	0.56
Reach 5	1374.339	10-year	1.43	235.87	236.07		236.09	0.008213	0.60	2.37	21.24	0.57
Reach 5	1374.339	25-year	1.90	235.87	236.09		236.12	0.008155	0.67	2.86	24.69	0.59
Reach 5	1374.339	50-year	2.26	235.87	236.11		236.13	0.008265	0.72	3.21	25.23	0.60
Reach 5	1374.339	100-year	2.63	235.87	236.12		236.15	0.008294	0.77	3.55	25.76	0.61
Reach 5	1374.339	Regional	5.86	235.87	236.21		236.27	0.008730	1.06	6.01	28.77	0.68
Reach 5	1345.871	2-year	0.62	234.53	234.69	234.69	234.72	0.028355	0.86	0.72	9.45	1.00
Reach 5	1345.871	5-year	1.08	234.53	234.72	234.72	234.77	0.026581	1.01	1.08	10.71	1.01
Reach 5	1345.871	10-year	1.43	234.53	234.75	234.75	234.80	0.024457	1.07	1.34	11.44	1.00
Reach 5	1345.871	25-year	1.90	234.53	234.77	234.77	234.84	0.024028	1.18	1.62	11.82	1.01
Reach 5	1345.871	50-year	2.26	234.53	234.79	234.79	234.87	0.023132	1.23	1.83	12.10	1.01
Reach 5	1345.871	100-year	2.63	234.53	234.80	234.80	234.89	0.022576	1.29	2.04	12.37	1.01
Reach 5	1345.871	Regional	5.86	234.53	234.93	234.93	235.06	0.018703	1.59	3.70	14.25	0.99
Reach 5	1281.581	2-year	0.62	234.38	234.64		234.64	0.000165	0.11	5.61	34.52	0.09
Reach 5	1281.581	5-year	1.08	234.38	234.68		234.68	0.000249	0.16	7.05	35.75	0.11
Reach 5	1281.581	10-year	1.43	234.38	234.70		234.71	0.000297	0.18	7.94	36.35	0.12
Reach 5	1281.581	25-year	1.90	234.38	234.73		234.74	0.000348	0.22	9.02	37.04	0.14
Reach 5	1281.581	50-year	2.26	234.38	234.75		234.76	0.000378	0.24	9.81	37.37	0.14
Reach 5	1281.581	100-year	2.63	234.38	234.78		234.78	0.000400	0.26	10.60	37.69	0.15
Reach 5	1281.581	Regional	5.86	234.38	234.90		234.90	0.000632	0.40	15.24	39.54	0.20
Reach 4	1254.43	2-year	1.31	234.45	234.62		234.62	0.001194	0.21	6.28	65.02	0.21
Reach 4	1254.43	5-year	2.32	234.45	234.66		234.66	0.001351	0.27	8.56	65.40	0.24
Reach 4	1254.43	10-year	3.08	234.45	234.68		234.68	0.001448	0.31	9.96	65.63	0.25
Reach 4	1254.43	25-year	4.14	234.45	234.70		234.71	0.001563	0.36	11.64	65.91	0.27
Reach 4	1254.43	50-year	5.00	234.45	234.72		234.73	0.001634	0.39	12.86	66.11	0.28
Reach 4	1254.43	100-year	5.90	234.45	234.74		234.75	0.001668	0.42	14.14	66.31	0.29
Reach 4	1254.43	Regional	12.61	234.45	234.85		234.86	0.002006	0.60	21.19	67.64	0.34
Reach 4	1190	2-year	1.31	234.40	234.50	234.50	234.53	0.035595	0.66	1.97	45.79	1.02
Reach 4	1190	5-year	2.32	234.40	234.52	234.52	234.55	0.033179	0.75	3.07	55.57	1.03
Reach 4	1190	10-year	3.08	234.40	234.54	234.54	234.57	0.029177	0.81	3.79	55.73	1.00
Reach 4	1190	25-year	4.14	234.40	234.55	234.55	234.59	0.027290	0.90	4.62	55.91	0.99
Reach 4	1190	50-year	5.00	234.40	234.56	234.56	234.61	0.026347	0.95	5.23	56.03	1.00
Reach 4	1190	100-year	5.90	234.40	234.57	234.57	234.63	0.026399	1.02	5.79	56.15	1.01
Reach 4	1190	Regional	12.61	234.40	234.64	234.64	234.73	0.022188	1.30	9.67	56.96	1.01
Reach 4	1132	2-year	1.31	232.23	232.40		232.43	0.013080	0.66	1.99	22.05	0.70
Reach 4	1132	5-year	2.32	232.23	232.45		232.48	0.010697	0.73	3.18	26.03	0.66
Reach 4	1132	10-year	3.08	232.23	232.48		232.51	0.009619	0.78	3.96	26.92	0.65
Reach 4	1132	25-year	4.14	232.23	232.52		232.55	0.008939	0.85	4.90	27.98	0.64
Reach 4	1132	50-year	5.00	232.23	232.54		232.58	0.008459	0.89	5.64	28.78	0.64
Reach 4	1132	100-year	5.90	232.23	232.57		232.61	0.008019	0.92	6.40	29.59	0.63
Reach 4	1132	Regional	12.61	232.23	232.73		232.79	0.005987	1.10	11.48	32.89	0.59
Reach 4	1125	2-year	1.31	232.13	232.37		232.38	0.004323	0.45	2.89	24.53	0.42

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	1125	5-year	2.32	232.13	232.42		232.43	0.004462	0.54	4.27	28.10	0.44
Reach 4	1125	10-year	3.08	232.13	232.45		232.47	0.004416	0.59	5.20	29.71	0.45
Reach 4	1125	25-year	4.14	232.13	232.49		232.51	0.004236	0.65	6.33	30.33	0.46
Reach 4	1125	50-year	5.00	232.13	232.52		232.54	0.004098	0.69	7.20	30.71	0.46
Reach 4	1125	100-year	5.90	232.13	232.54		232.57	0.003980	0.73	8.06	31.10	0.46
Reach 4	1125	Regional	12.61	232.13	232.71		232.76	0.003535	0.94	13.48	33.15	0.47
Reach 4	1105.427	2-year	1.31	232.05	232.24		232.26	0.009042	0.62	2.11	19.55	0.60
Reach 4	1105.427	5-year	2.32	232.05	232.29		232.32	0.007510	0.71	3.27	21.61	0.58
Reach 4	1105.427	10-year	3.08	232.05	232.33		232.36	0.006678	0.75	4.13	23.01	0.56
Reach 4	1105.427	25-year	4.14	232.05	232.37		232.41	0.006112	0.81	5.16	24.20	0.55
Reach 4	1105.427	50-year	5.00	232.05	232.41		232.44	0.005754	0.85	5.96	24.96	0.55
Reach 4	1105.427	100-year	5.90	232.05	232.44		232.48	0.005592	0.89	6.72	25.67	0.55
Reach 4	1105.427	Regional	12.61	232.05	232.61		232.67	0.005059	1.15	11.23	27.84	0.56
Reach 4	1064.597	2-year	1.31	231.65	231.90	231.85	231.92	0.007986	0.68	1.92	14.01	0.58
Reach 4	1064.597	5-year	2.32	231.65	231.95		231.99	0.009434	0.85	2.71	15.86	0.66
Reach 4	1064.597	10-year	3.08	231.65	231.98		232.03	0.010767	0.94	3.29	18.41	0.71
Reach 4	1064.597	25-year	4.14	231.65	232.01		232.07	0.012510	1.08	3.82	19.27	0.78
Reach 4	1064.597	50-year	5.00	231.65	232.03	232.00	232.10	0.014214	1.20	4.15	19.74	0.84
Reach 4	1064.597	100-year	5.90	231.65	232.05	232.03	232.14	0.015297	1.30	4.55	20.36	0.88
Reach 4	1064.597	Regional	12.61	231.65	232.17	232.17	232.33	0.018155	1.75	7.22	23.54	1.01
Reach 4	1047.971	2-year	1.31	230.98	231.33	231.33	231.38	0.026685	0.98	1.33	13.69	1.01
Reach 4	1047.971	5-year	2.32	230.98	231.38	231.38	231.44	0.021012	1.04	2.22	17.51	0.94
Reach 4	1047.971	10-year	3.08	230.98	231.42	231.41	231.48	0.017619	1.03	3.00	21.11	0.87
Reach 4	1047.971	25-year	4.14	230.98	231.46	231.45	231.52	0.014839	1.07	3.87	22.58	0.83
Reach 4	1047.971	50-year	5.00	230.98	231.50		231.56	0.012804	1.08	4.61	23.62	0.78
Reach 4	1047.971	100-year	5.90	230.98	231.52		231.59	0.011808	1.12	5.28	24.33	0.77
Reach 4	1047.971	Regional	12.61	230.98	231.70		231.78	0.008330	1.26	10.04	29.91	0.69
Reach 4	1000.841	2-year	1.31	230.30	230.77	230.66	230.80	0.006852	0.74	1.77	10.07	0.56
Reach 4	1000.841	5-year	2.32	230.30	230.84	230.77	230.88	0.007286	0.90	2.57	11.41	0.60
Reach 4	1000.841	10-year	3.08	230.30	230.88	230.80	230.94	0.007848	1.01	3.07	12.15	0.64
Reach 4	1000.841	25-year	4.14	230.30	230.93	230.85	231.00	0.008451	1.13	3.68	13.03	0.68
Reach 4	1000.841	50-year	5.00	230.30	230.97	230.89	231.04	0.009145	1.20	4.16	15.50	0.71
Reach 4	1000.841	100-year	5.90	230.30	231.01	230.92	231.09	0.009415	1.25	4.79	17.36	0.72
Reach 4	1000.841	Regional	12.61	230.30	231.16	231.12	231.30	0.012044	1.70	7.78	21.68	0.86
Reach 4	961.311	2-year	1.31	229.94	230.16	230.16	230.20	0.025059	0.89	1.47	16.82	0.96
Reach 4	961.311	5-year	2.32	229.94	230.20	230.20	230.25	0.025668	1.05	2.21	20.07	1.01
Reach 4	961.311	10-year	3.08	229.94	230.22	230.22	230.29	0.024246	1.14	2.70	20.74	1.01
Reach 4	961.311	25-year	4.14	229.94	230.25	230.25	230.33	0.023297	1.26	3.30	21.54	1.02
Reach 4	961.311	50-year	5.00	229.94	230.27	230.27	230.36	0.021694	1.32	3.80	22.18	1.00
Reach 4	961.311	100-year	5.90	229.94	230.29	230.29	230.39	0.021834	1.40	4.23	22.71	1.02
Reach 4	961.311	Regional	12.61	229.94	230.42	230.42	230.57	0.018258	1.68	7.67	28.51	1.00
Reach 4	914	2-year	1.57	229.38	229.64		229.64	0.000448	0.20	7.76	40.15	0.15
Reach 4	914	5-year	2.79	229.38	229.69		229.70	0.000603	0.27	10.14	41.25	0.18
Reach 4	914	10-year	3.71	229.38	229.73		229.73	0.000692	0.32	11.62	41.95	0.19
Reach 4	914	25-year	4.98	229.38	229.77		229.77	0.000832	0.38	13.21	42.68	0.22
Reach 4	914	50-year	6.02	229.38	229.79		229.80	0.000926	0.42	14.40	43.22	0.23
Reach 4	914	100-year	7.12	229.38	229.82		229.83	0.001004	0.46	15.60	43.75	0.24
Reach 4	914	Regional	15.90	229.38	230.04		230.06	0.001048	0.63	25.60	49.62	0.27
Reach 4	899	2-year	1.57	229.40	229.63		229.63	0.000598	0.21	7.41	44.41	0.17
Reach 4	899	5-year	2.79	229.40	229.68		229.69	0.000728	0.28	9.92	45.04	0.19
Reach 4	899	10-year	3.71	229.40	229.72		229.72	0.000803	0.32	11.47	45.40	0.21
Reach 4	899	25-year	4.98	229.40	229.75		229.76	0.000943	0.38	13.09	45.77	0.23
Reach 4	899	50-year	6.02	229.40	229.78		229.79	0.001037	0.42	14.30	46.06	0.24
Reach 4	899	100-year	7.12	229.40	229.81		229.82	0.001112	0.46	15.51	46.35	0.25
Reach 4	899	Regional	15.90	229.40	230.02		230.04	0.001100	0.62	25.72	48.70	0.27
Reach 4	879	2-year	1.57	229.42	229.61		229.62	0.000647	0.21	7.51	48.69	0.17
Reach 4	879	5-year	2.79	229.42	229.67		229.67	0.000761	0.28	10.13	49.24	0.19
Reach 4	879	10-year	3.71	229.42	229.70		229.71	0.000825	0.32	11.76	49.58	0.21
Reach 4	879	25-year	4.98	229.42	229.73		229.74	0.000973	0.37	13.38	49.91	0.23
Reach 4	879	50-year	6.02	229.42	229.76		229.77	0.001069	0.41	14.61	50.16	0.24
Reach 4	879	100-year	7.12	229.42	229.78		229.79	0.001141	0.45	15.86	50.42	0.25
Reach 4	879	Regional	15.90	229.42	230.00		230.02	0.001013	0.59	27.29	55.72	0.26
Reach 4	861	2-year	1.57	229.42	229.60		229.60	0.000937	0.24	6.55	45.70	0.20
Reach 4	861	5-year	2.79	229.42	229.65		229.66	0.001088	0.31	8.88	46.24	0.23
Reach 4	861	10-year	3.71	229.42	229.68		229.69	0.001174	0.36	10.34	46.53	0.24
Reach 4	861	25-year	4.98	229.42	229.71		229.72	0.001427	0.43	11.66	46.77	0.27
Reach 4	861	50-year	6.02	229.42	229.73		229.74	0.001590	0.48	12.67	46.94	0.29
Reach 4	861	100-year	7.12	229.42	229.75		229.77	0.001704	0.52	13.74	47.13	0.31

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	861	Regional	15.90	229.42	229.98		230.00	0.001338	0.65	24.32	49.01	0.30
Reach 4	846	2-year	1.57	229.43	229.57		229.58	0.004580	0.43	3.69	35.74	0.42
Reach 4	846	5-year	2.79	229.43	229.61		229.63	0.004420	0.53	5.28	36.24	0.44
Reach 4	846	10-year	3.71	229.43	229.64		229.66	0.004456	0.59	6.27	36.52	0.45
Reach 4	846	25-year	4.98	229.43	229.65		229.68	0.006701	0.75	6.63	36.61	0.56
Reach 4	846	50-year	6.02	229.43	229.65	229.61	229.69	0.009483	0.90	6.70	36.63	0.67
Reach 4	846	100-year	7.12	229.43	229.65		229.71	0.014423	1.09	6.52	36.58	0.82
Reach 4	846	Regional	15.90	229.43	229.92		229.96	0.003301	0.96	16.80	39.08	0.46
Reach 4	790	2-year	1.76	228.79	228.99	228.99	229.03	0.028151	1.19	2.67	32.77	1.08
Reach 4	790	5-year	3.10	228.79	229.03	229.03	229.08	0.030563	1.44	3.87	36.03	1.17
Reach 4	790	10-year	4.08	228.79	229.05	229.05	229.11	0.030108	1.57	4.70	37.69	1.19
Reach 4	790	25-year	5.45	228.79	229.12		229.16	0.012879	1.29	7.67	43.94	0.82
Reach 4	790	50-year	6.58	228.79	229.19		229.22	0.007500	1.15	10.77	48.03	0.65
Reach 4	790	100-year	7.72	228.79	229.25		229.27	0.004756	1.04	13.87	49.34	0.53
Reach 4	790	Regional	20.85	228.79	229.87		229.88	0.000775	0.79	46.60	55.66	0.25
Reach 4	763	2-year	1.76	228.45	228.80		228.81	0.001626	0.46	5.50	30.03	0.29
Reach 4	763	5-year	3.10	228.45	228.92		228.93	0.001213	0.51	9.03	33.10	0.27
Reach 4	763	10-year	4.08	228.45	228.99		229.00	0.001083	0.54	11.52	36.48	0.26
Reach 4	763	25-year	5.45	228.45	229.08		229.09	0.000907	0.56	14.89	37.61	0.25
Reach 4	763	50-year	6.58	228.45	229.15		229.16	0.000806	0.57	17.60	38.49	0.24
Reach 4	763	100-year	7.72	228.45	229.22		229.23	0.000734	0.59	20.23	39.39	0.23
Reach 4	763	Regional	20.85	228.45	229.85		229.87	0.000414	0.69	46.31	42.10	0.19
Reach 4	727	2-year	1.76	228.36	228.77	228.58	228.78	0.000657	0.31	5.81	22.19	0.19
Reach 4	727	5-year	3.10	228.36	228.89	228.63	228.89	0.000615	0.38	8.44	23.01	0.19
Reach 4	727	10-year	4.08	228.36	228.96	228.66	228.97	0.000594	0.41	10.15	23.52	0.19
Reach 4	727	25-year	5.45	228.36	229.05	228.69	229.06	0.000569	0.46	12.36	24.10	0.20
Reach 4	727	50-year	6.58	228.36	229.13	228.71	229.14	0.000549	0.49	14.11	24.52	0.20
Reach 4	727	100-year	7.72	228.36	229.19	228.74	229.21	0.000532	0.52	15.79	24.91	0.20
Reach 4	727	Regional	20.85	228.36	229.83	228.96	229.85	0.000403	0.69	35.25	35.65	0.19
Reach 4	692.338	2-year	1.76	228.35	228.61	228.61	228.70	0.017318	1.34	1.47	34.08	0.93
Reach 4	692.338	5-year	3.10	228.35	228.69	228.69	228.82	0.016857	1.63	2.17	35.81	0.96
Reach 4	692.338	10-year	4.08	228.35	228.74	228.74	228.89	0.016230	1.79	2.63	36.64	0.97
Reach 4	692.338	25-year	5.45	228.35	228.81	228.81	228.99	0.015873	1.98	3.18	38.74	0.99
Reach 4	692.338	50-year	6.58	228.35	228.85	228.85	229.06	0.015672	2.12	3.60	39.32	1.00
Reach 4	692.338	100-year	7.72	228.35	228.90	228.90	229.13	0.015404	2.24	4.00	41.10	1.01
Reach 4	692.338	Regional	20.85	228.35	229.32	229.32	229.76	0.013470	3.15	7.69	46.19	1.04
Reach 4	670		Culvert									
Reach 4	638.888	2-year	1.53	227.81	228.07	228.00	228.09	0.005922	0.77	2.09	28.83	0.54
Reach 4	638.888	5-year	2.69	227.81	228.12	228.06	228.17	0.008773	1.09	2.63	30.83	0.68
Reach 4	638.888	10-year	4.95	227.81	228.17	228.16	228.30	0.014791	1.62	3.26	35.08	0.92
Reach 4	638.888	25-year	6.61	227.81	228.22	228.22	228.39	0.016921	1.89	3.73	38.07	1.00
Reach 4	638.888	50-year	7.95	227.81	228.26	228.26	228.46	0.016466	2.01	4.21	39.81	1.01
Reach 4	638.888	100-year	9.32	227.81	228.31	228.31	228.53	0.016092	2.13	4.67	40.69	1.01
Reach 4	638.888	Regional	23.85	227.81	228.69	228.69	229.10	0.013189	2.90	8.77	45.38	1.02
Reach 4	638.543	2-year	1.53	227.84	227.99		228.01	0.009819	0.76	3.32	44.14	0.65
Reach 4	638.543	5-year	2.69	227.84	228.02		228.05	0.010971	0.93	4.90	47.05	0.71
Reach 4	638.543	10-year	4.95	227.84	228.07		228.11	0.011784	1.14	7.27	47.43	0.77
Reach 4	638.543	25-year	6.61	227.84	228.11		228.15	0.011968	1.25	8.75	47.65	0.79
Reach 4	638.543	50-year	7.95	227.84	228.13		228.18	0.011672	1.32	9.95	47.83	0.80
Reach 4	638.543	100-year	9.32	227.84	228.15		228.21	0.011539	1.38	11.07	47.99	0.80
Reach 4	638.543	Regional	23.85	227.84	228.37		228.46	0.009479	1.79	21.41	49.49	0.80
Reach 4	618.4043	2-year	1.53	227.68	227.75	227.74	227.77	0.030862	0.73	2.47	32.89	0.99
Reach 4	618.4043	5-year	2.69	227.68	227.79	227.76	227.82	0.024636	0.92	3.70	33.66	0.96
Reach 4	618.4043	10-year	4.95	227.68	227.85		227.89	0.019614	1.14	5.73	34.91	0.93
Reach 4	618.4043	25-year	6.61	227.68	227.89		227.94	0.017191	1.24	7.12	35.73	0.91
Reach 4	618.4043	50-year	7.95	227.68	227.91		227.97	0.016524	1.33	8.09	36.30	0.91
Reach 4	618.4043	100-year	9.32	227.68	227.94		228.01	0.015686	1.40	9.08	36.86	0.90
Reach 4	618.4043	Regional	23.85	227.68	228.15		228.28	0.013188	1.95	17.46	41.26	0.92
Reach 4	589.1152	2-year	1.53	227.07	227.33	227.30	227.34	0.008272	0.67	3.76	39.99	0.59
Reach 4	589.1152	5-year	2.69	227.07	227.36	227.33	227.38	0.009501	0.83	5.21	40.34	0.66
Reach 4	589.1152	10-year	4.95	227.07	227.41	227.37	227.44	0.011872	1.08	7.17	40.81	0.76
Reach 4	589.1152	25-year	6.61	227.07	227.44	227.40	227.48	0.013779	1.24	8.21	41.06	0.83
Reach 4	589.1152	50-year	7.95	227.07	227.46	227.41	227.51	0.014858	1.35	9.02	41.24	0.88
Reach 4	589.1152	100-year	9.32	227.07	227.47	227.43	227.53	0.016018	1.45	9.73	41.41	0.92
Reach 4	589.1152	Regional	23.85	227.07	227.61	227.59	227.77	0.023318	2.33	15.47	42.98	1.19
Reach 4	540.9416	2-year	1.53	226.72	226.76	226.75	226.78	0.035502	0.50	2.52	37.25	0.95

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	540.9416	5-year	2.69	226.72	226.80	226.78	226.83	0.027360	0.78	4.07	43.06	0.96
Reach 4	540.9416	10-year	4.95	226.72	226.86		226.89	0.019145	1.01	7.00	50.90	0.90
Reach 4	540.9416	25-year	6.61	226.72	226.90		226.93	0.015785	1.09	8.99	51.08	0.85
Reach 4	540.9416	50-year	7.95	226.72	226.93		226.96	0.014307	1.15	10.44	51.21	0.83
Reach 4	540.9416	100-year	9.32	226.72	226.96		226.99	0.013213	1.21	11.82	51.33	0.82
Reach 4	540.9416	Regional	23.85	226.72	227.20		227.25	0.008458	1.57	24.24	52.43	0.74
Reach 4	487.0009	2-year	1.53	226.22	226.34		226.35	0.003269	0.39	5.20	35.39	0.36
Reach 4	487.0009	5-year	2.69	226.22	226.40		226.41	0.003377	0.52	7.29	36.60	0.40
Reach 4	487.0009	10-year	4.95	226.22	226.49		226.50	0.003616	0.70	10.41	38.21	0.44
Reach 4	487.0009	25-year	6.61	226.22	226.54		226.55	0.003697	0.80	12.39	39.30	0.46
Reach 4	487.0009	50-year	7.95	226.22	226.57		226.59	0.003756	0.87	13.87	40.08	0.47
Reach 4	487.0009	100-year	9.32	226.22	226.61		226.63	0.003782	0.93	15.32	40.79	0.48
Reach 4	487.0009	Regional	23.85	226.22	226.90		226.94	0.003937	1.37	27.70	45.75	0.54
Reach 4	459.8704	2-year	1.53	225.93	226.09	226.09	226.13	0.027439	0.97	1.58	17.19	1.02
Reach 4	459.8704	5-year	2.69	225.93	226.13	226.13	226.19	0.024539	1.11	2.43	20.56	1.01
Reach 4	459.8704	10-year	4.95	225.93	226.20	226.20	226.28	0.020147	1.33	3.88	23.92	0.98
Reach 4	459.8704	25-year	6.61	225.93	226.23	226.23	226.34	0.018736	1.46	4.83	25.20	0.98
Reach 4	459.8704	50-year	7.95	225.93	226.26	226.26	226.38	0.017742	1.54	5.59	26.17	0.97
Reach 4	459.8704	100-year	9.32	225.93	226.29	226.29	226.42	0.017224	1.62	6.30	27.05	0.97
Reach 4	459.8704	Regional	23.85	225.93	226.52	226.52	226.73	0.013755	2.14	13.35	34.51	0.96
Reach 4	428.8159	2-year	1.53	225.43	225.70		225.71	0.003164	0.54	3.15	20.59	0.39
Reach 4	428.8159	5-year	2.69	225.43	225.76		225.79	0.003429	0.68	4.63	23.90	0.43
Reach 4	428.8159	10-year	4.95	225.43	225.87		225.90	0.003411	0.85	7.35	28.56	0.45
Reach 4	428.8159	25-year	6.61	225.43	225.92		225.96	0.003658	0.97	8.91	30.70	0.48
Reach 4	428.8159	50-year	7.95	225.43	225.97		226.01	0.003500	1.02	10.46	33.00	0.48
Reach 4	428.8159	100-year	9.32	225.43	226.00		226.05	0.003907	1.12	11.37	34.72	0.51
Reach 4	428.8159	Regional	23.85	225.43	226.26		226.36	0.004589	1.61	22.41	46.44	0.59
Reach 4	394.871	2-year	1.53	225.26	225.43	225.43	225.48	0.022140	1.03	1.55	14.90	0.95
Reach 4	394.871	5-year	2.69	225.26	225.48	225.48	225.56	0.018314	1.21	2.44	17.51	0.92
Reach 4	394.871	10-year	4.95	225.26	225.55	225.55	225.66	0.018393	1.52	3.80	20.55	0.98
Reach 4	394.871	25-year	6.61	225.26	225.61	225.61	225.73	0.015276	1.60	5.09	24.02	0.92
Reach 4	394.871	50-year	7.95	225.26	225.63	225.63	225.78	0.017165	1.77	5.63	25.54	0.99
Reach 4	394.871	100-year	9.32	225.26	225.69	225.69	225.82	0.012683	1.70	7.40	33.10	0.88
Reach 4	394.871	Regional	23.85	225.26	225.93	225.93	226.12	0.011595	2.24	16.63	45.17	0.91
Reach 4	349.2437	2-year	1.53	224.34	224.61	224.59	224.66	0.014837	1.06	1.53	11.73	0.83
Reach 4	349.2437	5-year	2.69	224.34	224.66	224.66	224.75	0.016765	1.37	2.26	14.42	0.92
Reach 4	349.2437	10-year	4.95	224.34	224.76	224.76	224.88	0.014996	1.64	3.78	17.27	0.92
Reach 4	349.2437	25-year	6.61	224.34	224.81	224.81	224.96	0.014621	1.80	4.78	18.90	0.94
Reach 4	349.2437	50-year	7.95	224.34	224.86	224.86	225.01	0.013986	1.89	5.62	20.16	0.93
Reach 4	349.2437	100-year	9.32	224.34	224.90	224.90	225.06	0.013588	1.98	6.42	21.18	0.93
Reach 4	349.2437	Regional	23.85	224.34	225.19	225.19	225.45	0.012502	2.64	13.77	28.64	0.97
Reach 4	315.6893	2-year	1.53	223.71	223.97	223.97	224.04	0.023725	1.19	1.29	9.64	1.01
Reach 4	315.6893	5-year	2.69	223.71	224.04	224.04	224.14	0.020017	1.41	1.97	10.92	0.99
Reach 4	315.6893	10-year	4.95	223.71	224.14	224.14	224.28	0.016634	1.69	3.21	12.99	0.97
Reach 4	315.6893	25-year	6.61	223.71	224.20	224.20	224.37	0.015370	1.84	4.07	14.26	0.96
Reach 4	315.6893	50-year	7.95	223.71	224.25	224.25	224.43	0.014562	1.93	4.77	15.21	0.95
Reach 4	315.6893	100-year	9.32	223.71	224.29	224.29	224.49	0.014026	2.03	5.44	16.08	0.95
Reach 4	315.6893	Regional	23.85	223.71	224.63	224.63	224.94	0.011850	2.69	11.98	22.52	0.96
Reach 4	275.2624	2-year	1.53	223.35	223.65		223.66	0.001981	0.50	3.21	15.63	0.32
Reach 4	275.2624	5-year	2.69	223.35	223.76		223.77	0.001751	0.59	5.04	18.99	0.32
Reach 4	275.2624	10-year	4.95	223.35	223.91		223.93	0.001645	0.73	8.17	23.04	0.33
Reach 4	275.2624	25-year	6.61	223.35	223.99		224.02	0.001610	0.80	10.28	25.33	0.33
Reach 4	275.2624	50-year	7.95	223.35	224.06		224.09	0.001601	0.85	11.90	26.95	0.34
Reach 4	275.2624	100-year	9.32	223.35	224.11		224.15	0.001603	0.90	13.46	28.43	0.34
Reach 4	275.2624	Regional	23.85	223.35	224.54		224.60	0.001684	1.27	28.05	40.83	0.38
Reach 4	229.0522	2-year	1.53	223.05	223.39	223.37	223.47	0.013831	1.26	1.36	8.00	0.84
Reach 4	229.0522	5-year	2.69	223.05	223.46	223.46	223.58	0.015524	1.61	2.01	9.70	0.93
Reach 4	229.0522	10-year	4.95	223.05	223.60	223.60	223.75	0.013286	1.90	3.53	13.06	0.91
Reach 4	229.0522	25-year	6.61	223.05	223.67	223.67	223.85	0.012639	2.06	4.59	15.01	0.92
Reach 4	229.0522	50-year	7.95	223.05	223.73	223.73	223.92	0.012161	2.16	5.45	16.43	0.91
Reach 4	229.0522	100-year	9.32	223.05	223.78	223.78	223.98	0.011877	2.26	6.30	17.71	0.92
Reach 4	229.0522	Regional	23.85	223.05	224.14	224.14	224.42	0.010723	2.92	14.55	27.48	0.94
Reach 4	173.0601	2-year	1.53	222.67	222.95		222.97	0.005779	0.72	2.28	15.58	0.53
Reach 4	173.0601	5-year	2.69	222.67	223.03		223.06	0.004890	0.85	3.73	19.01	0.51
Reach 4	173.0601	10-year	4.95	222.67	223.15		223.20	0.004308	1.01	6.30	23.72	0.51
Reach 4	173.0601	25-year	6.61	222.67	223.22		223.27	0.004039	1.09	8.11	26.56	0.51
Reach 4	173.0601	50-year	7.95	222.67	223.27		223.33	0.003902	1.15	9.56	28.89	0.51
Reach 4	173.0601	100-year	9.32	222.67	223.32		223.38	0.003783	1.20	11.00	30.89	0.51

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	173.0601	Regional	23.85	222.67	223.68		223.77	0.003363	1.58	24.55	44.44	0.52
Reach 4	153.1	2-year	1.53	222.33	222.70	222.65	222.75	0.007047	1.12	2.24	12.36	0.63
Reach 4	153.1	5-year	2.69	222.33	222.79	222.73	222.85	0.007675	1.38	3.43	14.97	0.69
Reach 4	153.1	10-year	4.95	222.33	222.91	222.85	223.00	0.008190	1.69	5.42	18.02	0.74
Reach 4	153.1	25-year	6.61	222.33	222.98	222.91	223.08	0.008612	1.87	6.66	19.63	0.77
Reach 4	153.1	50-year	7.95	222.33	223.03	222.95	223.13	0.008868	2.00	7.61	20.84	0.80
Reach 4	153.1	100-year	9.32	222.33	223.07	222.99	223.19	0.009043	2.11	8.57	22.08	0.81
Reach 4	153.1	Regional	23.85	222.33	223.41	223.32	223.59	0.009297	2.80	17.68	30.69	0.88
Reach 4	137.87	2-year	1.53	221.96	222.26	222.25	222.32	0.020793	1.13	1.36	9.48	0.95
Reach 4	137.87	5-year	2.69	221.96	222.32	222.32	222.41	0.019401	1.35	2.01	10.90	0.97
Reach 4	137.87	10-year	4.95	221.96	222.42	222.42	222.55	0.017390	1.66	3.14	12.89	0.98
Reach 4	137.87	25-year	6.61	221.96	222.48	222.48	222.64	0.015947	1.81	3.97	14.18	0.97
Reach 4	137.87	50-year	7.95	221.96	222.52	222.52	222.70	0.015045	1.90	4.65	15.14	0.96
Reach 4	137.87	100-year	9.32	221.96	222.57	222.57	222.76	0.014377	1.99	5.32	16.04	0.95
Reach 4	137.87	Regional	23.85	221.96	222.93	222.93	223.21	0.010553	2.53	12.69	26.09	0.90
Reach 4	99.65	2-year	1.53	221.71	221.93	221.84	221.94	0.003368	0.49	3.14	19.73	0.39
Reach 4	99.65	5-year	2.69	221.71	222.00	221.89	222.02	0.003703	0.60	4.50	22.37	0.43
Reach 4	99.65	10-year	4.95	221.71	222.08	221.96	222.11	0.004108	0.79	6.40	25.37	0.47
Reach 4	99.65	25-year	6.61	221.71	222.12	222.00	222.16	0.004319	0.89	7.64	27.13	0.50
Reach 4	99.65	50-year	7.95	221.71	222.16	222.03	222.21	0.004462	0.97	8.59	28.40	0.51
Reach 4	99.65	100-year	9.32	221.71	222.19	222.06	222.24	0.004601	1.04	9.50	29.52	0.53
Reach 4	99.65	Regional	23.85	221.71	222.43	222.29	222.55	0.005471	1.56	17.71	37.65	0.63
Reach 4	11.71822	2-year	1.53	221.55	221.58	221.58	221.62	0.072991	0.69	1.89	27.18	1.35
Reach 4	11.71822	5-year	2.69	221.55	221.61	221.61	221.66	0.069537	1.07	2.71	27.85	1.48
Reach 4	11.71822	10-year	4.95	221.55	221.66	221.66	221.74	0.058281	1.45	4.16	28.98	1.49
Reach 4	11.71822	25-year	6.61	221.55	221.69	221.69	221.78	0.054850	1.63	5.07	29.67	1.50
Reach 4	11.71822	50-year	7.95	221.55	221.72	221.72	221.82	0.051703	1.74	5.80	30.21	1.49
Reach 4	11.71822	100-year	9.32	221.55	221.74	221.74	221.85	0.049663	1.83	6.48	30.71	1.49
Reach 4	11.71822	Regional	23.85	221.55	221.93	221.93	222.13	0.039483	2.58	12.59	34.74	1.49

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 6	1154.71	2-year	0.47	246.89	247.01	246.99	247.02	0.015238	0.52	0.89	15.80	0.70
Reach 6	1154.71	5-year	0.75	246.89	247.03	247.01	247.05	0.014004	0.59	1.27	17.39	0.70
Reach 6	1154.71	10-year	0.96	246.89	247.04	247.02	247.06	0.014194	0.64	1.50	18.52	0.71
Reach 6	1154.71	25-year	1.23	246.89	247.06	247.04	247.08	0.013324	0.67	1.83	20.03	0.71
Reach 6	1154.71	50-year	1.43	246.89	247.07	247.05	247.10	0.012897	0.69	2.07	21.06	0.70
Reach 6	1154.71	100-year	1.64	246.89	247.08	247.06	247.11	0.012434	0.71	2.31	22.05	0.70
Reach 6	1154.71	Regional	3.50	246.89	247.15	247.12	247.19	0.011080	0.90	3.98	27.93	0.71
Reach 6	1064.02	2-year	0.47	245.66	245.77	245.75	245.78	0.012416	0.47	1.00	17.84	0.63
Reach 6	1064.02	5-year	0.75	245.66	245.78	245.76	245.80	0.013489	0.57	1.33	18.77	0.68
Reach 6	1064.02	10-year	0.96	245.66	245.79	245.78	245.81	0.013367	0.62	1.55	19.29	0.69
Reach 6	1064.02	25-year	1.23	245.66	245.81	245.79	245.83	0.014310	0.69	1.77	19.80	0.73
Reach 6	1064.02	50-year	1.43	245.66	245.81	245.80	245.84	0.014794	0.74	1.94	20.16	0.75
Reach 6	1064.02	100-year	1.64	245.66	245.82	245.80	245.85	0.015401	0.79	2.09	20.48	0.78
Reach 6	1064.02	Regional	3.50	245.66	245.88	245.87	245.94	0.017580	1.10	3.29	24.59	0.89
Reach 6	962.05	2-year	0.47	244.36	244.47	244.45	244.48	0.013407	0.51	0.92	15.29	0.66
Reach 6	962.05	5-year	0.75	244.36	244.49	244.47	244.51	0.012272	0.59	1.28	16.75	0.66
Reach 6	962.05	10-year	0.96	244.36	244.50	244.48	244.52	0.012360	0.65	1.49	17.55	0.68
Reach 6	962.05	25-year	1.23	244.36	244.52	244.49	244.54	0.011519	0.70	1.80	18.57	0.68
Reach 6	962.05	50-year	1.43	244.36	244.53	244.50	244.56	0.011149	0.74	2.01	19.15	0.68
Reach 6	962.05	100-year	1.64	244.36	244.54	244.51	244.57	0.010760	0.77	2.23	19.73	0.68
Reach 6	962.05	Regional	3.50	244.36	244.62		244.67	0.009455	0.99	4.05	25.57	0.68
Reach 6	881.96	2-year	0.47	243.45	243.60		243.62	0.009279	0.56	0.83	9.15	0.59
Reach 6	881.96	5-year	0.75	243.45	243.64	243.60	243.66	0.009708	0.65	1.16	10.41	0.62
Reach 6	881.96	10-year	0.96	243.45	243.66	243.62	243.68	0.009541	0.69	1.38	11.13	0.63
Reach 6	881.96	25-year	1.23	243.45	243.68		243.71	0.009952	0.76	1.62	11.82	0.65
Reach 6	881.96	50-year	1.43	243.45	243.69		243.73	0.010205	0.80	1.79	12.33	0.67
Reach 6	881.96	100-year	1.64	243.45	243.71		243.74	0.010503	0.84	1.96	12.79	0.68
Reach 6	881.96	Regional	3.50	243.45	243.80	243.76	243.86	0.011513	1.05	3.32	16.46	0.75
Reach 6	808.88	2-year	0.47	242.86	242.96		242.97	0.007575	0.35	1.33	25.15	0.49
Reach 6	808.88	5-year	0.75	242.86	242.98		242.99	0.007602	0.41	1.82	26.95	0.51
Reach 6	808.88	10-year	0.96	242.86	242.99		243.00	0.007939	0.43	2.21	31.45	0.52
Reach 6	808.88	25-year	1.23	242.86	243.01		243.02	0.007874	0.46	2.69	35.32	0.53
Reach 6	808.88	50-year	1.43	242.86	243.02		243.03	0.007912	0.48	3.00	36.97	0.53
Reach 6	808.88	100-year	1.64	242.86	243.02		243.04	0.007834	0.50	3.31	38.10	0.54
Reach 6	808.88	Regional	3.50	242.86	243.08		243.10	0.008196	0.64	5.48	44.61	0.58
Reach 6	744.83	2-year	0.47	241.99	242.07	242.07	242.10	0.032402	0.73	0.64	11.98	1.01
Reach 6	744.83	5-year	0.75	241.99	242.09	242.09	242.13	0.031469	0.84	0.89	13.16	1.03
Reach 6	744.83	10-year	0.96	241.99	242.11	242.11	242.15	0.028577	0.89	1.08	13.73	1.01
Reach 6	744.83	25-year	1.23	241.99	242.13	242.13	242.17	0.028317	0.86	1.43	18.89	1.00
Reach 6	744.83	50-year	1.43	241.99	242.14	242.14	242.18	0.028200	0.88	1.63	20.92	1.00
Reach 6	744.83	100-year	1.64	241.99	242.15	242.15	242.19	0.028304	0.92	1.79	21.41	1.01
Reach 6	744.83	Regional	3.50	241.99	242.20	242.20	242.27	0.024194	1.16	3.02	22.71	1.01
Reach 6	688	2-year	0.47	241.16	241.31		241.31	0.003837	0.37	1.27	13.42	0.38
Reach 6	688	5-year	0.75	241.16	241.34		241.35	0.004006	0.42	1.78	15.86	0.40
Reach 6	688	10-year	0.96	241.16	241.36		241.37	0.004310	0.47	2.05	16.53	0.42
Reach 6	688	25-year	1.23	241.16	241.38		241.40	0.004200	0.50	2.44	17.23	0.43
Reach 6	688	50-year	1.43	241.16	241.40		241.41	0.004236	0.53	2.69	17.64	0.43
Reach 6	688	100-year	1.64	241.16	241.41		241.43	0.004244	0.56	2.95	18.04	0.44
Reach 6	688	Regional	3.50	241.16	241.51		241.53	0.004544	0.74	4.72	19.75	0.48
Reach 8	25105	2-year	0.28	245.72	245.81	245.81	245.84	0.028390	0.74	0.38	6.36	0.96
Reach 8	25105	5-year	0.47	245.72	245.83	245.83	245.87	0.027729	0.86	0.55	7.16	0.99
Reach 8	25105	10-year	0.60	245.72	245.85	245.85	245.89	0.026528	0.91	0.66	7.64	0.99
Reach 8	25105	25-year	0.77	245.72	245.87	245.87	245.91	0.025366	0.96	0.80	8.20	0.98
Reach 8	25105	50-year	0.89	245.72	245.88	245.88	245.93	0.024934	1.00	0.89	8.58	0.99
Reach 8	25105	100-year	1.03	245.72	245.89	245.89	245.94	0.023805	1.02	1.00	8.98	0.98
Reach 8	25105	Regional	2.05	245.72	245.96	245.96	246.03	0.021401	1.20	1.71	11.25	0.98
Reach 8	25101	2-year	0.28	245.22	245.32		245.33	0.007301	0.43	0.65	8.73	0.51
Reach 8	25101	5-year	0.47	245.22	245.35		245.37	0.007420	0.51	0.92	9.76	0.53
Reach 8	25101	10-year	0.60	245.22	245.37		245.39	0.007603	0.55	1.08	10.33	0.55
Reach 8	25101	25-year	0.77	245.22	245.39		245.41	0.007804	0.60	1.27	10.96	0.56
Reach 8	25101	50-year	0.89	245.22	245.40		245.42	0.007898	0.63	1.41	11.41	0.57
Reach 8	25101	100-year	1.03	245.22	245.41		245.43	0.008136	0.66	1.54	11.81	0.59
Reach 8	25101	Regional	2.05	245.22	245.48		245.52	0.008769	0.83	2.48	14.47	0.64
Reach 8	25005	2-year	0.28	244.65	244.74	244.74	244.77	0.031428	0.73	0.39	7.05	1.00
Reach 8	25005	5-year	0.47	244.65	244.77	244.77	244.80	0.031046	0.79	0.59	9.50	1.01
Reach 8	25005	10-year	0.60	244.65	244.78	244.78	244.82	0.029496	0.83	0.72	10.28	1.01
Reach 8	25005	25-year	0.77	244.65	244.80	244.80	244.84	0.028668	0.88	0.87	11.14	1.01
Reach 8	25005	50-year	0.89	244.65	244.81	244.81	244.85	0.027920	0.91	0.98	11.71	1.01

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 8	25005	100-year	1.03	244.65	244.81	244.81	244.86	0.026532	0.94	1.09	12.06	1.00
Reach 8	25005	Regional	2.05	244.65	244.87	244.87	244.94	0.024351	1.14	1.80	13.82	1.01
Reach 8	24932.1	2-year	0.28	244.02	244.13	244.10	244.14	0.006577	0.37	0.77	11.99	0.47
Reach 8	24932.1	5-year	0.47	244.02	244.15	244.13	244.16	0.008035	0.46	1.02	13.19	0.53
Reach 8	24932.1	10-year	0.60	244.02	244.17	244.13	244.18	0.007365	0.49	1.22	13.70	0.52
Reach 8	24932.1	25-year	0.77	244.02	244.18	244.15	244.20	0.007600	0.54	1.42	14.18	0.54
Reach 8	24932.1	50-year	0.89	244.02	244.19	244.15	244.21	0.007838	0.58	1.55	14.49	0.56
Reach 8	24932.1	100-year	1.03	244.02	244.20	244.16	244.22	0.007881	0.61	1.69	14.92	0.57
Reach 8	24932.1	Regional	2.05	244.02	244.25	244.21	244.29	0.009242	0.84	2.52	17.47	0.65
Reach 8	24932	2-year	0.28	243.60	243.65	243.65	243.67	0.038431	0.57	0.50	15.73	1.01
Reach 8	24932	5-year	0.47	243.60	243.67	243.67	243.69	0.025940	0.61	0.78	16.93	0.89
Reach 8	24932	10-year	0.60	243.60	243.68	243.67	243.70	0.031834	0.71	0.85	17.13	1.00
Reach 8	24932	25-year	0.77	243.60	243.68	243.68	243.71	0.030156	0.77	1.01	17.44	0.99
Reach 8	24932	50-year	0.89	243.60	243.69	243.69	243.72	0.028443	0.81	1.13	17.66	0.98
Reach 8	24932	100-year	1.03	243.60	243.70	243.70	243.73	0.028378	0.85	1.24	17.85	1.00
Reach 8	24932	Regional	2.05	243.60	243.74	243.74	243.80	0.022443	1.04	2.08	19.33	0.96
Reach 8	24406	2-year	0.28	243.08	243.20	243.17	243.20	0.005411	0.32	0.95	17.29	0.42
Reach 8	24406	5-year	0.47	243.08	243.22	243.19	243.22	0.005644	0.40	1.30	18.29	0.45
Reach 8	24406	10-year	0.60	243.08	243.23	243.20	243.24	0.005746	0.44	1.51	18.87	0.46
Reach 8	24406	25-year	0.77	243.08	243.24	243.20	243.25	0.005709	0.48	1.78	19.80	0.47
Reach 8	24406	50-year	0.89	243.08	243.25	243.21	243.26	0.005724	0.51	1.97	20.46	0.48
Reach 8	24406	100-year	1.03	243.08	243.26	243.22	243.27	0.005938	0.54	2.14	20.91	0.50
Reach 8	24406	Regional	2.05	243.08	243.31		243.34	0.006562	0.73	3.34	23.35	0.55
Reach 8	24152	2-year	0.28	242.40	242.47	242.47	242.49	0.036116	0.59	0.48	13.26	1.00
Reach 8	24152	5-year	0.47	242.40	242.49	242.49	242.51	0.032958	0.67	0.70	14.89	0.99
Reach 8	24152	10-year	0.60	242.40	242.50	242.50	242.53	0.031794	0.71	0.84	16.03	0.99
Reach 8	24152	25-year	0.77	242.40	242.51	242.51	242.54	0.032203	0.77	1.00	17.18	1.02
Reach 8	24152	50-year	0.89	242.40	242.52	242.52	242.55	0.032416	0.81	1.10	17.57	1.03
Reach 8	24152	100-year	1.03	242.40	242.52	242.52	242.56	0.029855	0.81	1.26	19.00	1.00
Reach 8	24152	Regional	2.05	242.40	242.57	242.56	242.62	0.024821	0.98	2.09	20.47	0.98
Reach 8	24151	2-year	0.28	241.22	241.32	241.31	241.34	0.012698	0.51	0.55	8.66	0.65
Reach 8	24151	5-year	0.47	241.22	241.35		241.37	0.014842	0.64	0.74	9.30	0.73
Reach 8	24151	10-year	0.60	241.22	241.35	241.34	241.38	0.019400	0.76	0.79	9.45	0.84
Reach 8	24151	25-year	0.77	241.22	241.37	241.36	241.40	0.017955	0.78	0.98	10.58	0.82
Reach 8	24151	50-year	0.89	241.22	241.38	241.37	241.41	0.019458	0.84	1.07	11.10	0.86
Reach 8	24151	100-year	1.03	241.22	241.39	241.38	241.43	0.019970	0.87	1.17	11.68	0.88
Reach 8	24151	Regional	2.05	241.22	241.43	241.43	241.50	0.023841	1.17	1.76	12.90	1.01
Reach 6-Lower	629	2-year	0.66	240.55	240.71	240.71	240.75	0.027466	0.86	0.76	9.81	0.99
Reach 6-Lower	629	5-year	1.08	240.55	240.75	240.74	240.79	0.024519	0.91	1.19	12.98	0.96
Reach 6-Lower	629	10-year	1.39	240.55	240.77	240.76	240.82	0.020690	0.89	1.56	15.32	0.90
Reach 6-Lower	629	25-year	1.82	240.55	240.79	240.79	240.84	0.021041	0.97	1.88	16.63	0.92
Reach 6-Lower	629	50-year	2.15	240.55	240.81	240.80	240.86	0.020106	1.00	2.14	17.36	0.91
Reach 6-Lower	629	100-year	2.51	240.55	240.82	240.81	240.88	0.019420	1.04	2.41	17.97	0.91
Reach 6-Lower	629	Regional	5.55	240.55	240.93		241.01	0.015662	1.24	4.47	21.81	0.88
Reach 6-Lower	581.37	2-year	0.66	240.21	240.41		240.42	0.003362	0.35	1.91	20.00	0.36
Reach 6-Lower	581.37	5-year	1.08	240.21	240.45		240.46	0.003587	0.41	2.63	22.36	0.38
Reach 6-Lower	581.37	10-year	1.39	240.21	240.47		240.48	0.003973	0.46	3.01	23.18	0.41
Reach 6-Lower	581.37	25-year	1.82	240.21	240.49		240.50	0.003919	0.51	3.57	23.82	0.42
Reach 6-Lower	581.37	50-year	2.15	240.21	240.50		240.52	0.004022	0.55	3.93	24.23	0.43
Reach 6-Lower	581.37	100-year	2.51	240.21	240.52		240.54	0.004110	0.59	4.30	24.64	0.44
Reach 6-Lower	581.37	Regional	5.55	240.21	240.62		240.65	0.004764	0.84	6.82	27.54	0.51
Reach 6-Lower	522.55	2-year	0.66	239.81	239.93	239.93	239.95	0.035861	0.68	0.97	21.85	1.03
Reach 6-Lower	522.55	5-year	1.08	239.81	239.95	239.95	239.97	0.032239	0.75	1.44	25.83	1.01
Reach 6-Lower	522.55	10-year	1.39	239.81	239.96	239.96	239.99	0.025706	0.74	1.89	29.32	0.93
Reach 6-Lower	522.55	25-year	1.82	239.81	239.97	239.97	240.01	0.028532	0.84	2.16	29.60	1.00
Reach 6-Lower	522.55	50-year	2.15	239.81	239.98	239.98	240.02	0.027515	0.89	2.42	29.87	1.00
Reach 6-Lower	522.55	100-year	2.51	239.81	239.99	239.99	240.03	0.026634	0.93	2.70	30.15	1.00
Reach 6-Lower	522.55	Regional	5.55	239.81	240.05	240.05	240.12	0.021502	1.17	4.74	32.63	0.97
Reach 6-Lower	379.80	2-year	0.66	238.57	238.69	238.66	238.70	0.004169	0.33	1.97	25.68	0.38
Reach 6-Lower	379.80	5-year	1.08	238.57	238.72		238.73	0.004366	0.41	2.66	26.71	0.41
Reach 6-Lower	379.80	10-year	1.39	238.57	238.74		238.75	0.004509	0.45	3.10	27.35	0.43
Reach 6-Lower	379.80	25-year	1.82	238.57	238.76		238.77	0.004616	0.50	3.65	28.13	0.44
Reach 6-Lower	379.80	50-year	2.15	238.57	238.77		238.79	0.004649	0.53	4.06	28.53	0.45
Reach 6-Lower	379.80	100-year	2.51	238.57	238.79		238.80	0.004707	0.57	4.44	28.73	0.46
Reach 6-Lower	379.80	Regional	5.55	238.57	238.87		238.91	0.005161	0.79	7.03	29.64	0.52
Reach 6-Lower	289.21	2-year	0.66	237.90	238.06	238.05	238.08	0.015696	0.54	1.22	20.69	0.71
Reach 6-Lower	289.21	5-year	1.08	237.90	238.09	238.07	238.11	0.014276	0.63	1.71	21.64	0.71

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 6-Lower	289.21	10-year	1.39	237.90	238.10	238.08	238.13	0.013343	0.67	2.06	22.33	0.71
Reach 6-Lower	289.21	25-year	1.82	237.90	238.12		238.15	0.013013	0.73	2.50	23.77	0.71
Reach 6-Lower	289.21	50-year	2.15	237.90	238.14		238.17	0.012776	0.75	2.86	25.41	0.72
Reach 6-Lower	289.21	100-year	2.51	237.90	238.15		238.18	0.012373	0.78	3.21	26.34	0.71
Reach 6-Lower	289.21	Regional	5.55	237.90	238.24	238.20	238.29	0.010714	0.97	5.74	30.73	0.71
Reach 6-Lower	217.29	2-year	0.66	236.91	237.07	237.05	237.10	0.012441	0.66	0.99	10.43	0.69
Reach 6-Lower	217.29	5-year	1.08	236.91	237.12	237.08	237.14	0.012973	0.73	1.48	14.03	0.71
Reach 6-Lower	217.29	10-year	1.39	236.91	237.14	237.10	237.17	0.013755	0.80	1.74	14.98	0.75
Reach 6-Lower	217.29	25-year	1.82	236.91	237.16	237.13	237.20	0.013932	0.87	2.08	15.83	0.77
Reach 6-Lower	217.29	50-year	2.15	236.91	237.17	237.15	237.22	0.014214	0.93	2.32	16.32	0.79
Reach 6-Lower	217.29	100-year	2.51	236.91	237.19	237.16	237.24	0.014496	0.98	2.56	16.73	0.80
Reach 6-Lower	217.29	Regional	5.55	236.91	237.28	237.26	237.37	0.016094	1.29	4.29	20.65	0.89
Reach 6-Lower	175.22	2-year	0.66	235.75	235.87	235.87	235.91	0.028881	0.83	0.80	11.37	1.00
Reach 6-Lower	175.22	5-year	1.08	235.75	235.90	235.90	235.94	0.027499	0.96	1.13	12.39	1.01
Reach 6-Lower	175.22	10-year	1.39	235.75	235.92	235.92	235.97	0.025414	1.02	1.37	12.95	1.00
Reach 6-Lower	175.22	25-year	1.82	235.75	235.94	235.94	236.00	0.024689	1.10	1.65	13.56	1.01
Reach 6-Lower	175.22	50-year	2.15	235.75	235.95	235.95	236.02	0.023962	1.15	1.87	14.02	1.01
Reach 6-Lower	175.22	100-year	2.51	235.75	235.97	235.97	236.04	0.023364	1.20	2.09	14.43	1.01
Reach 6-Lower	175.22	Regional	5.55	235.75	236.07	236.07	236.19	0.020025	1.50	3.71	16.58	1.01
Reach 6-Lower	75.62	2-year	0.66	234.50	234.71		234.72	0.002296	0.34	1.93	15.82	0.31
Reach 6-Lower	75.62	5-year	1.08	234.50	234.76		234.76	0.002316	0.41	2.64	16.94	0.32
Reach 6-Lower	75.62	10-year	1.39	234.50	234.78		234.79	0.002370	0.46	3.10	17.63	0.34
Reach 6-Lower	75.62	25-year	1.82	234.50	234.81		234.83	0.002448	0.51	3.66	18.42	0.35
Reach 6-Lower	75.62	50-year	2.15	234.50	234.84		234.85	0.002490	0.55	4.07	18.98	0.36
Reach 6-Lower	75.62	100-year	2.51	234.50	234.86		234.87	0.002536	0.59	4.48	19.53	0.37
Reach 6-Lower	75.62	Regional	5.55	234.50	235.00		235.03	0.002763	0.82	7.44	22.13	0.41
Reach 6-Lower	17.67	2-year	0.66	234.42	234.67		234.67	0.000432	0.16	4.19	30.53	0.14
Reach 6-Lower	17.67	5-year	1.08	234.42	234.71		234.71	0.000513	0.20	5.38	30.91	0.15
Reach 6-Lower	17.67	10-year	1.39	234.42	234.73		234.73	0.000573	0.23	6.10	31.13	0.17
Reach 6-Lower	17.67	25-year	1.82	234.42	234.76		234.76	0.000638	0.27	6.95	31.40	0.18
Reach 6-Lower	17.67	50-year	2.15	234.42	234.78		234.78	0.000677	0.29	7.58	31.59	0.19
Reach 6-Lower	17.67	100-year	2.51	234.42	234.80		234.80	0.000722	0.31	8.18	31.77	0.20
Reach 6-Lower	17.67	Regional	5.55	234.42	234.93		234.94	0.000875	0.46	12.62	33.63	0.23
Reach 5	2480.223	2-year	0.65	246.13	246.32	246.27	246.33	0.006501	0.53	1.24	11.33	0.51
Reach 5	2480.223	5-year	1.07	246.13	246.36	246.30	246.38	0.006848	0.61	1.74	13.13	0.54
Reach 5	2480.223	10-year	1.38	246.13	246.38	246.32	246.40	0.007158	0.67	2.06	14.61	0.56
Reach 5	2480.223	25-year	1.78	246.13	246.41	246.35	246.44	0.007473	0.72	2.52	18.57	0.58
Reach 5	2480.223	50-year	2.09	246.13	246.42	246.36	246.45	0.007764	0.77	2.81	22.10	0.60
Reach 5	2480.223	100-year	2.41	246.13	246.44	246.38	246.47	0.007859	0.81	3.20	28.89	0.61
Reach 5	2480.223	Regional	5.86	246.13	246.54	246.50	246.60	0.008351	1.13	6.58	39.52	0.68
Reach 5	2413.965	2-year	0.65	245.66	245.78		245.79	0.010485	0.52	1.26	17.02	0.61
Reach 5	2413.965	5-year	1.07	245.66	245.81		245.83	0.010234	0.58	1.85	21.44	0.62
Reach 5	2413.965	10-year	1.38	245.66	245.82		245.84	0.010046	0.63	2.19	22.55	0.63
Reach 5	2413.965	25-year	1.78	245.66	245.84		245.87	0.009914	0.70	2.62	23.84	0.64
Reach 5	2413.965	50-year	2.09	245.66	245.86		245.88	0.009545	0.73	2.96	24.82	0.64
Reach 5	2413.965	100-year	2.41	245.66	245.87		245.90	0.009540	0.77	3.27	25.68	0.65
Reach 5	2413.965	Regional	5.86	245.66	245.97		246.02	0.008934	1.01	6.39	33.49	0.67
Reach 5	2353.877	2-year	0.65	245.34	245.48		245.48	0.003028	0.28	2.29	29.69	0.33
Reach 5	2353.877	5-year	1.07	245.34	245.51		245.51	0.003118	0.34	3.17	35.25	0.35
Reach 5	2353.877	10-year	1.38	245.34	245.52		245.53	0.003208	0.37	3.79	40.29	0.36
Reach 5	2353.877	25-year	1.78	245.34	245.54		245.55	0.003254	0.41	4.53	41.75	0.37
Reach 5	2353.877	50-year	2.09	245.34	245.55		245.56	0.003386	0.44	5.00	42.65	0.38
Reach 5	2353.877	100-year	2.41	245.34	245.56		245.57	0.003408	0.46	5.52	43.62	0.39
Reach 5	2353.877	Regional	5.86	245.34	245.65		245.67	0.004019	0.68	9.55	49.63	0.45
Reach 5	2307.004	2-year	0.65	245.12	245.24		245.25	0.010038	0.39	1.68	33.69	0.55
Reach 5	2307.004	5-year	1.07	245.12	245.26		245.27	0.010011	0.46	2.33	36.47	0.58
Reach 5	2307.004	10-year	1.38	245.12	245.27		245.28	0.010476	0.51	2.70	37.04	0.60
Reach 5	2307.004	25-year	1.78	245.12	245.28		245.30	0.010532	0.56	3.17	37.75	0.62
Reach 5	2307.004	50-year	2.09	245.12	245.29		245.31	0.010050	0.59	3.56	38.34	0.62
Reach 5	2307.004	100-year	2.41	245.12	245.30		245.32	0.009728	0.61	3.94	38.89	0.61
Reach 5	2307.004	Regional	5.86	245.12	245.39	245.33	245.42	0.007547	0.79	7.69	49.11	0.59
Reach 5	2247.605	2-year	0.65	244.45	244.56	244.54	244.57	0.012897	0.57	1.27	21.67	0.67
Reach 5	2247.605	5-year	1.07	244.45	244.58		244.61	0.012509	0.67	1.94	29.07	0.69
Reach 5	2247.605	10-year	1.38	244.45	244.60		244.62	0.011710	0.69	2.49	31.38	0.68
Reach 5	2247.605	25-year	1.78	244.45	244.62		244.64	0.011367	0.75	3.02	32.26	0.69
Reach 5	2247.605	50-year	2.09	244.45	244.63		244.66	0.011843	0.81	3.33	32.70	0.71
Reach 5	2247.605	100-year	2.41	244.45	244.64		244.67	0.012347	0.86	3.62	33.07	0.73
Reach 5	2247.605	Regional	5.86	244.45	244.71	244.70	244.78	0.016359	1.30	6.19	39.46	0.90

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 5	2193.192	2-year	0.65	243.62	243.77	243.76	243.79	0.015740	0.54	1.20	20.36	0.71
Reach 5	2193.192	5-year	1.07	243.62	243.80	243.78	243.82	0.016293	0.58	1.84	29.08	0.74
Reach 5	2193.192	10-year	1.38	243.62	243.81	243.80	243.83	0.017802	0.63	2.17	32.03	0.78
Reach 5	2193.192	25-year	1.78	243.62	243.82	243.81	243.85	0.018541	0.68	2.62	35.67	0.80
Reach 5	2193.192	50-year	2.09	243.62	243.83	243.82	243.86	0.017762	0.71	2.96	37.14	0.80
Reach 5	2193.192	100-year	2.41	243.62	243.84	243.83	243.87	0.016883	0.72	3.33	38.70	0.79
Reach 5	2193.192	Regional	5.86	243.62	243.92	243.89	243.96	0.013012	0.88	6.67	48.73	0.75
Reach 5	2136.188	2-year	0.65	242.87	243.11		243.12	0.009210	0.48	1.37	18.97	0.56
Reach 5	2136.188	5-year	1.07	242.87	243.14	243.10	243.15	0.008911	0.56	1.91	20.10	0.58
Reach 5	2136.188	10-year	1.38	242.87	243.15	243.12	243.17	0.008140	0.60	2.30	20.64	0.57
Reach 5	2136.188	25-year	1.78	242.87	243.18	243.13	243.20	0.007790	0.65	2.78	23.81	0.57
Reach 5	2136.188	50-year	2.09	242.87	243.19	243.14	243.22	0.007871	0.66	3.24	28.41	0.58
Reach 5	2136.188	100-year	2.41	242.87	243.20	243.16	243.23	0.008058	0.70	3.57	29.62	0.59
Reach 5	2136.188	Regional	5.86	242.87	243.29		243.34	0.009195	0.99	6.55	39.00	0.68
Reach 5	2075.723	2-year	0.65	242.46	242.63		242.64	0.006779	0.48	1.54	21.64	0.51
Reach 5	2075.723	5-year	1.07	242.46	242.66		242.68	0.006950	0.57	2.31	28.26	0.53
Reach 5	2075.723	10-year	1.38	242.46	242.68		242.69	0.007757	0.64	2.72	30.30	0.57
Reach 5	2075.723	25-year	1.78	242.46	242.70		242.72	0.008177	0.70	3.31	33.39	0.59
Reach 5	2075.723	50-year	2.09	242.46	242.71		242.73	0.008167	0.73	3.73	34.19	0.60
Reach 5	2075.723	100-year	2.41	242.46	242.72		242.75	0.008024	0.77	4.17	35.02	0.60
Reach 5	2075.723	Regional	5.86	242.46	242.83		242.87	0.006718	0.99	8.42	40.94	0.60
Reach 5	2020.589	2-year	0.65	241.73	241.92	241.92	241.98	0.024908	1.03	0.63	5.76	0.99
Reach 5	2020.589	5-year	1.07	241.73	241.97	241.97	242.03	0.021409	1.11	1.00	9.53	0.96
Reach 5	2020.589	10-year	1.38	241.73	242.00	242.00	242.07	0.017047	1.14	1.38	14.82	0.88
Reach 5	2020.589	25-year	1.78	241.73	242.03	242.03	242.10	0.014870	1.19	1.89	17.84	0.85
Reach 5	2020.589	50-year	2.09	241.73	242.05	242.05	242.12	0.014566	1.25	2.20	18.59	0.85
Reach 5	2020.589	100-year	2.41	241.73	242.07	242.07	242.14	0.014535	1.30	2.50	18.98	0.86
Reach 5	2020.589	Regional	5.86	241.73	242.18	242.18	242.31	0.015618	1.78	4.91	21.94	0.96
Reach 5	1969.241	2-year	0.65	241.14	241.36	241.30	241.38	0.006632	0.58	1.12	8.97	0.52
Reach 5	1969.241	5-year	1.07	241.14	241.41	241.34	241.43	0.006718	0.65	1.65	11.24	0.54
Reach 5	1969.241	10-year	1.38	241.14	241.44	241.37	241.46	0.006937	0.69	1.99	12.79	0.56
Reach 5	1969.241	25-year	1.78	241.14	241.47	241.40	241.50	0.006788	0.75	2.41	16.94	0.56
Reach 5	1969.241	50-year	2.09	241.14	241.49	241.42	241.52	0.006960	0.79	2.72	18.16	0.58
Reach 5	1969.241	100-year	2.41	241.14	241.50	241.44	241.54	0.007066	0.84	3.03	19.13	0.59
Reach 5	1969.241	Regional	5.86	241.14	241.62	241.57	241.69	0.008188	1.22	5.60	23.66	0.68
Reach 5	1907.204	2-year	0.65	240.49	240.64	240.64	240.67	0.023890	0.73	0.90	13.46	0.90
Reach 5	1907.204	5-year	1.07	240.49	240.67	240.66	240.71	0.025239	0.87	1.23	14.79	0.96
Reach 5	1907.204	10-year	1.38	240.49	240.69	240.68	240.73	0.024780	0.90	1.52	16.92	0.96
Reach 5	1907.204	25-year	1.78	240.49	240.70	240.70	240.75	0.026975	1.00	1.78	18.05	1.02
Reach 5	1907.204	50-year	2.09	240.49	240.71	240.71	240.77	0.026140	1.04	2.00	18.69	1.02
Reach 5	1907.204	100-year	2.41	240.49	240.72	240.72	240.78	0.025593	1.08	2.24	19.59	1.02
Reach 5	1907.204	Regional	5.86	240.49	240.82	240.82	240.92	0.021347	1.40	4.19	21.73	1.01
Reach 5	1865.536	2-year	0.65	239.99	240.19		240.20	0.005673	0.37	1.77	25.28	0.44
Reach 5	1865.536	5-year	1.07	239.99	240.22		240.23	0.005565	0.43	2.50	28.23	0.46
Reach 5	1865.536	10-year	1.38	239.99	240.24		240.25	0.005694	0.48	2.92	28.96	0.47
Reach 5	1865.536	25-year	1.78	239.99	240.26		240.27	0.005337	0.52	3.52	29.83	0.47
Reach 5	1865.536	50-year	2.09	239.99	240.27		240.28	0.005328	0.55	3.90	30.37	0.48
Reach 5	1865.536	100-year	2.41	239.99	240.28		240.30	0.005175	0.58	4.32	30.96	0.48
Reach 5	1865.536	Regional	5.86	239.99	240.39		240.42	0.005096	0.81	7.62	32.38	0.52
Reach 5	1835.732	2-year	0.65	239.62	239.88	239.84	239.92	0.016598	0.89	0.83	15.50	0.82
Reach 5	1835.732	5-year	1.07	239.62	239.91	239.91	239.96	0.015122	1.01	1.46	18.71	0.82
Reach 5	1835.732	10-year	1.38	239.62	239.94	239.94	239.98	0.013351	1.05	1.96	21.52	0.79
Reach 5	1835.732	25-year	1.78	239.62	239.96	239.96	240.01	0.014336	1.16	2.38	22.90	0.83
Reach 5	1835.732	50-year	2.09	239.62	239.97	239.97	240.03	0.013953	1.21	2.76	24.06	0.83
Reach 5	1835.732	100-year	2.41	239.62	239.99	239.98	240.05	0.014093	1.27	3.09	25.05	0.84
Reach 5	1835.732	Regional	5.86	239.62	240.10	240.09	240.18	0.012867	1.58	6.81	36.19	0.86
Reach 5	1759.197	2-year	0.65	239.03	239.16	239.13	239.17	0.006172	0.44	1.58	21.40	0.48
Reach 5	1759.197	5-year	1.07	239.03	239.19		239.20	0.006408	0.53	2.20	22.96	0.51
Reach 5	1759.197	10-year	1.38	239.03	239.21		239.22	0.006903	0.59	2.57	24.19	0.53
Reach 5	1759.197	25-year	1.78	239.03	239.23		239.25	0.007006	0.65	3.09	26.36	0.55
Reach 5	1759.197	50-year	2.09	239.03	239.24		239.26	0.007246	0.69	3.40	26.73	0.57
Reach 5	1759.197	100-year	2.41	239.03	239.25		239.28	0.007275	0.73	3.74	27.17	0.58
Reach 5	1759.197	Regional	5.86	239.03	239.35		239.40	0.007893	1.05	6.70	31.28	0.65
Reach 5	1684.856	2-year	0.65	238.60	238.76		238.77	0.005589	0.40	2.00	30.10	0.45
Reach 5	1684.856	5-year	1.07	238.60	238.78		238.79	0.005455	0.47	2.82	32.08	0.46
Reach 5	1684.856	10-year	1.38	238.60	238.80		238.81	0.005068	0.51	3.42	33.04	0.46
Reach 5	1684.856	25-year	1.78	238.60	238.82		238.84	0.005008	0.56	4.09	33.89	0.47

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 5	1684.856	50-year	2.09	238.60	238.84		238.85	0.004894	0.59	4.58	34.32	0.47
Reach 5	1684.856	100-year	2.41	238.60	238.85		238.87	0.004853	0.62	5.04	34.63	0.47
Reach 5	1684.856	Regional	5.86	238.60	238.97		239.00	0.004385	0.83	9.24	36.50	0.49
Reach 5	1614.867	2-year	0.65	237.96	238.31	238.28	238.33	0.008933	0.66	1.18	14.20	0.60
Reach 5	1614.867	5-year	1.07	237.96	238.35	238.32	238.38	0.008432	0.78	1.83	19.60	0.62
Reach 5	1614.867	10-year	1.38	237.96	238.37	238.33	238.40	0.009148	0.87	2.21	21.52	0.65
Reach 5	1614.867	25-year	1.78	237.96	238.39	238.36	238.43	0.009059	0.94	2.76	23.61	0.66
Reach 5	1614.867	50-year	2.09	237.96	238.41		238.45	0.009166	0.99	3.13	24.47	0.68
Reach 5	1614.867	100-year	2.41	237.96	238.43		238.47	0.008961	1.03	3.54	25.38	0.68
Reach 5	1614.867	Regional	5.86	237.96	238.54	238.50	238.61	0.009560	1.39	6.96	35.42	0.75
Reach 5	1534.323	2-year	0.65	237.43	237.54		237.55	0.013901	0.49	1.32	23.50	0.67
Reach 5	1534.323	5-year	1.07	237.43	237.56		237.57	0.016119	0.61	1.77	26.07	0.74
Reach 5	1534.323	10-year	1.38	237.43	237.57		237.59	0.014772	0.64	2.15	27.47	0.73
Reach 5	1534.323	25-year	1.78	237.43	237.58		237.61	0.015273	0.69	2.58	30.21	0.75
Reach 5	1534.323	50-year	2.09	237.43	237.59		237.62	0.015505	0.73	2.89	31.90	0.76
Reach 5	1534.323	100-year	2.41	237.43	237.60		237.63	0.016271	0.77	3.14	32.69	0.79
Reach 5	1534.323	Regional	5.86	237.43	237.67	237.65	237.73	0.017349	1.11	5.41	36.14	0.88
Reach 5	1499.019	2-year	0.65	236.66	236.79	236.79	236.82	0.030469	0.76	0.86	14.50	0.99
Reach 5	1499.019	5-year	1.07	236.66	236.82	236.82	236.86	0.024193	0.85	1.27	15.84	0.94
Reach 5	1499.019	10-year	1.38	236.66	236.83	236.83	236.88	0.026551	0.95	1.46	16.70	1.00
Reach 5	1499.019	25-year	1.78	236.66	236.85	236.85	236.90	0.024784	1.03	1.78	18.87	0.99
Reach 5	1499.019	50-year	2.09	236.66	236.86	236.86	236.92	0.023922	1.08	2.01	19.83	0.99
Reach 5	1499.019	100-year	2.41	236.66	236.88	236.88	236.94	0.022313	1.12	2.28	20.49	0.98
Reach 5	1499.019	Regional	5.86	236.66	236.98	236.98	237.08	0.017946	1.46	4.58	24.46	0.96
Reach 5	1374.339	2-year	0.65	235.87	236.02		236.03	0.007764	0.48	1.35	16.01	0.53
Reach 5	1374.339	5-year	1.07	235.87	236.05		236.06	0.007859	0.56	1.91	18.46	0.55
Reach 5	1374.339	10-year	1.38	235.87	236.07		236.09	0.007999	0.59	2.33	21.02	0.57
Reach 5	1374.339	25-year	1.78	235.87	236.09		236.11	0.008114	0.65	2.75	24.06	0.58
Reach 5	1374.339	50-year	2.09	235.87	236.10		236.13	0.008289	0.70	3.04	24.97	0.60
Reach 5	1374.339	100-year	2.41	235.87	236.11		236.14	0.008258	0.74	3.35	25.45	0.61
Reach 5	1374.339	Regional	5.86	235.87	236.21		236.27	0.008799	1.06	5.99	28.74	0.68
Reach 5	1345.871	2-year	0.65	234.53	234.69	234.69	234.73	0.027790	0.87	0.75	9.57	0.99
Reach 5	1345.871	5-year	1.07	234.53	234.72	234.72	234.77	0.026719	1.00	1.06	10.67	1.01
Reach 5	1345.871	10-year	1.38	234.53	234.74	234.74	234.80	0.025691	1.07	1.29	11.36	1.02
Reach 5	1345.871	25-year	1.78	234.53	234.76	234.76	234.83	0.024380	1.15	1.54	11.72	1.02
Reach 5	1345.871	50-year	2.09	234.53	234.78	234.78	234.85	0.023188	1.20	1.74	11.98	1.01
Reach 5	1345.871	100-year	2.41	234.53	234.79	234.79	234.88	0.022947	1.26	1.92	12.21	1.01
Reach 5	1345.871	Regional	5.86	234.53	234.93	234.93	235.06	0.018526	1.58	3.70	14.26	0.99
Reach 5	1281.581	2-year	0.65	234.38	234.64		234.64	0.000173	0.12	5.72	34.62	0.09
Reach 5	1281.581	5-year	1.07	234.38	234.68		234.68	0.000244	0.15	7.02	35.73	0.11
Reach 5	1281.581	10-year	1.38	234.38	234.70		234.70	0.000291	0.18	7.80	36.25	0.12
Reach 5	1281.581	25-year	1.78	234.38	234.73		234.73	0.000338	0.21	8.75	36.88	0.13
Reach 5	1281.581	50-year	2.09	234.38	234.74		234.75	0.000368	0.23	9.41	37.21	0.14
Reach 5	1281.581	100-year	2.41	234.38	234.76		234.77	0.000388	0.25	10.12	37.50	0.15
Reach 5	1281.581	Regional	5.86	234.38	234.90		234.90	0.000631	0.40	15.24	39.54	0.20
Reach 4	1254.43	2-year	1.40	234.45	234.62		234.63	0.001245	0.22	6.46	65.05	0.22
Reach 4	1254.43	5-year	2.30	234.45	234.66		234.66	0.001347	0.27	8.52	65.40	0.24
Reach 4	1254.43	10-year	2.97	234.45	234.67		234.68	0.001464	0.31	9.71	65.59	0.25
Reach 4	1254.43	25-year	3.88	234.45	234.70		234.70	0.001556	0.35	11.19	65.84	0.27
Reach 4	1254.43	50-year	4.59	234.45	234.71		234.72	0.001635	0.38	12.21	66.00	0.28
Reach 4	1254.43	100-year	5.34	234.45	234.73		234.74	0.001641	0.40	13.38	66.19	0.28
Reach 4	1254.43	Regional	12.61	234.45	234.85		234.86	0.002004	0.60	21.19	67.64	0.34
Reach 4	1190	2-year	1.40	234.40	234.51	234.51	234.53	0.035250	0.67	2.08	46.99	1.02
Reach 4	1190	5-year	2.30	234.40	234.52	234.52	234.55	0.033152	0.75	3.05	55.57	1.02
Reach 4	1190	10-year	2.97	234.40	234.54	234.54	234.57	0.029191	0.80	3.71	55.71	0.99
Reach 4	1190	25-year	3.88	234.40	234.55	234.55	234.59	0.027613	0.88	4.43	55.86	0.99
Reach 4	1190	50-year	4.59	234.40	234.56	234.56	234.60	0.026656	0.93	4.95	55.98	0.99
Reach 4	1190	100-year	5.34	234.40	234.57	234.57	234.62	0.027172	0.99	5.40	56.07	1.02
Reach 4	1190	Regional	12.61	234.40	234.64	234.64	234.73	0.022230	1.30	9.66	56.96	1.01
Reach 4	1132	2-year	1.40	232.23	232.41		232.43	0.012838	0.67	2.10	22.45	0.70
Reach 4	1132	5-year	2.30	232.23	232.45		232.48	0.010747	0.73	3.16	26.00	0.67
Reach 4	1132	10-year	2.97	232.23	232.48		232.51	0.009761	0.77	3.84	26.80	0.65
Reach 4	1132	25-year	3.88	232.23	232.51		232.54	0.009086	0.83	4.67	27.73	0.65
Reach 4	1132	50-year	4.59	232.23	232.53		232.57	0.008687	0.87	5.29	28.40	0.64
Reach 4	1132	100-year	5.34	232.23	232.55		232.60	0.008271	0.90	5.94	29.10	0.64
Reach 4	1132	Regional	12.61	232.23	232.73		232.79	0.005985	1.10	11.48	32.89	0.59
Reach 4	1125	2-year	1.40	232.13	232.37		232.38	0.004368	0.46	3.01	24.81	0.42

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	1125	5-year	2.30	232.13	232.42		232.43	0.004462	0.54	4.24	28.03	0.44
Reach 4	1125	10-year	2.97	232.13	232.45		232.46	0.004442	0.59	5.06	29.49	0.45
Reach 4	1125	25-year	3.88	232.13	232.48		232.50	0.004274	0.64	6.06	30.20	0.46
Reach 4	1125	50-year	4.59	232.13	232.50		232.53	0.004165	0.68	6.79	30.53	0.46
Reach 4	1125	100-year	5.34	232.13	232.53		232.55	0.004041	0.71	7.54	30.87	0.46
Reach 4	1125	Regional	12.61	232.13	232.71		232.76	0.003535	0.94	13.48	33.15	0.47
Reach 4	1105.427	2-year	1.40	232.05	232.24		232.26	0.008725	0.62	2.23	19.78	0.59
Reach 4	1105.427	5-year	2.30	232.05	232.29		232.32	0.007556	0.71	3.25	21.57	0.58
Reach 4	1105.427	10-year	2.97	232.05	232.33		232.35	0.006795	0.75	4.00	22.81	0.56
Reach 4	1105.427	25-year	3.88	232.05	232.36		232.40	0.006264	0.80	4.90	23.94	0.56
Reach 4	1105.427	50-year	4.59	232.05	232.39		232.43	0.005947	0.83	5.57	24.59	0.55
Reach 4	1105.427	100-year	5.34	232.05	232.42		232.46	0.005565	0.86	6.30	25.28	0.54
Reach 4	1105.427	Regional	12.61	232.05	232.61		232.67	0.005056	1.15	11.23	27.84	0.56
Reach 4	1064.597	2-year	1.40	231.65	231.90	231.86	231.93	0.008328	0.70	1.98	14.13	0.60
Reach 4	1064.597	5-year	2.30	231.65	231.95		231.99	0.009359	0.85	2.70	15.84	0.66
Reach 4	1064.597	10-year	2.97	231.65	231.98		232.02	0.010472	0.92	3.22	18.09	0.70
Reach 4	1064.597	25-year	3.88	231.65	232.01		232.06	0.012035	1.05	3.70	19.13	0.76
Reach 4	1064.597	50-year	4.59	231.65	232.02		232.09	0.013273	1.14	4.01	19.51	0.81
Reach 4	1064.597	100-year	5.34	231.65	232.04	232.01	232.12	0.015124	1.25	4.26	19.91	0.87
Reach 4	1064.597	Regional	12.61	231.65	232.17	232.17	232.33	0.018188	1.75	7.21	23.53	1.01
Reach 4	1047.971	2-year	1.40	230.98	231.34	231.34	231.38	0.025127	0.96	1.45	14.85	0.98
Reach 4	1047.971	5-year	2.30	230.98	231.38	231.38	231.44	0.021274	1.05	2.20	17.42	0.94
Reach 4	1047.971	10-year	2.97	230.98	231.42	231.40	231.47	0.018275	1.03	2.88	20.84	0.89
Reach 4	1047.971	25-year	3.88	230.98	231.45	231.44	231.51	0.015539	1.06	3.64	22.25	0.84
Reach 4	1047.971	50-year	4.59	230.98	231.48	231.46	231.54	0.013783	1.08	4.24	23.12	0.81
Reach 4	1047.971	100-year	5.34	230.98	231.51		231.57	0.011924	1.08	4.93	23.96	0.76
Reach 4	1047.971	Regional	12.61	230.98	231.70		231.78	0.008337	1.26	10.03	29.90	0.69
Reach 4	1000.841	2-year	1.40	230.30	230.78	230.67	230.81	0.006770	0.75	1.86	10.23	0.56
Reach 4	1000.841	5-year	2.30	230.30	230.84	230.77	230.88	0.007230	0.90	2.56	11.39	0.60
Reach 4	1000.841	10-year	2.97	230.30	230.88	230.80	230.93	0.007730	0.99	3.00	12.06	0.63
Reach 4	1000.841	25-year	3.88	230.30	230.92	230.84	230.98	0.008277	1.10	3.54	12.82	0.67
Reach 4	1000.841	50-year	4.59	230.30	230.95	230.88	231.02	0.008808	1.17	3.92	13.90	0.69
Reach 4	1000.841	100-year	5.34	230.30	230.98	230.90	231.06	0.009603	1.22	4.40	16.61	0.72
Reach 4	1000.841	Regional	12.61	230.30	231.16	231.12	231.30	0.012027	1.69	7.78	21.68	0.86
Reach 4	961.311	2-year	1.40	229.94	230.16	230.16	230.20	0.026380	0.93	1.51	16.89	0.99
Reach 4	961.311	5-year	2.30	229.94	230.20	230.20	230.25	0.025998	1.05	2.19	20.04	1.02
Reach 4	961.311	10-year	2.97	229.94	230.22	230.22	230.28	0.024647	1.13	2.62	20.64	1.01
Reach 4	961.311	25-year	3.88	229.94	230.24	230.24	230.32	0.023726	1.23	3.15	21.34	1.02
Reach 4	961.311	50-year	4.59	229.94	230.26	230.26	230.35	0.022431	1.29	3.56	21.88	1.01
Reach 4	961.311	100-year	5.34	229.94	230.28	230.28	230.37	0.020563	1.33	4.04	22.48	0.99
Reach 4	961.311	Regional	12.61	229.94	230.42	230.42	230.57	0.018292	1.68	7.66	28.50	1.00
Reach 4	914	2-year	1.68	229.38	229.64		229.64	0.000462	0.21	8.03	40.27	0.15
Reach 4	914	5-year	2.78	229.38	229.69		229.70	0.000601	0.27	10.12	41.25	0.18
Reach 4	914	10-year	3.59	229.38	229.73		229.73	0.000680	0.31	11.46	41.87	0.19
Reach 4	914	25-year	4.68	229.38	229.76		229.77	0.000801	0.36	12.86	42.52	0.21
Reach 4	914	50-year	5.56	229.38	229.78		229.79	0.000885	0.40	13.90	42.99	0.22
Reach 4	914	100-year	6.48	229.38	229.81		229.82	0.000963	0.43	14.89	43.43	0.24
Reach 4	914	Regional	15.89	229.38	230.04		230.06	0.001048	0.63	25.60	49.62	0.27
Reach 4	899	2-year	1.68	229.40	229.63		229.64	0.000608	0.22	7.70	44.48	0.17
Reach 4	899	5-year	2.78	229.40	229.68		229.69	0.000727	0.28	9.90	45.03	0.19
Reach 4	899	10-year	3.59	229.40	229.71		229.72	0.000791	0.32	11.30	45.36	0.20
Reach 4	899	25-year	4.68	229.40	229.75		229.75	0.000912	0.37	12.73	45.69	0.22
Reach 4	899	50-year	5.56	229.40	229.77		229.78	0.000994	0.40	13.79	45.94	0.24
Reach 4	899	100-year	6.48	229.40	229.79		229.80	0.001074	0.44	14.79	46.18	0.25
Reach 4	899	Regional	15.89	229.40	230.02		230.04	0.001100	0.62	25.71	48.70	0.27
Reach 4	879	2-year	1.68	229.42	229.62		229.62	0.000653	0.22	7.81	48.75	0.17
Reach 4	879	5-year	2.78	229.42	229.67		229.67	0.000760	0.27	10.11	49.23	0.19
Reach 4	879	10-year	3.59	229.42	229.70		229.70	0.000812	0.31	11.59	49.54	0.20
Reach 4	879	25-year	4.68	229.42	229.73		229.73	0.000940	0.36	13.03	49.84	0.22
Reach 4	879	50-year	5.56	229.42	229.75		229.76	0.001024	0.40	14.10	50.06	0.24
Reach 4	879	100-year	6.48	229.42	229.77		229.78	0.001107	0.43	15.11	50.27	0.25
Reach 4	879	Regional	15.89	229.42	230.00		230.02	0.001012	0.59	27.29	55.72	0.26
Reach 4	861	2-year	1.68	229.42	229.61		229.61	0.000938	0.25	6.83	45.76	0.20
Reach 4	861	5-year	2.78	229.42	229.65		229.66	0.001086	0.31	8.87	46.23	0.23
Reach 4	861	10-year	3.59	229.42	229.68		229.69	0.001153	0.35	10.19	46.51	0.24
Reach 4	861	25-year	4.68	229.42	229.70		229.71	0.001369	0.41	11.37	46.72	0.27
Reach 4	861	50-year	5.56	229.42	229.72		229.73	0.001511	0.45	12.26	46.87	0.28
Reach 4	861	100-year	6.48	229.42	229.74		229.75	0.001654	0.49	13.09	47.01	0.30

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	861	Regional	15.89	229.42	229.98		230.00	0.001337	0.65	24.31	49.01	0.30
Reach 4	846	2-year	1.68	229.43	229.57		229.58	0.004310	0.43	3.92	35.82	0.41
Reach 4	846	5-year	2.78	229.43	229.61		229.63	0.004407	0.53	5.27	36.23	0.44
Reach 4	846	10-year	3.59	229.43	229.64		229.65	0.004334	0.58	6.20	36.50	0.45
Reach 4	846	25-year	4.68	229.43	229.65		229.67	0.006041	0.71	6.59	36.60	0.53
Reach 4	846	50-year	5.56	229.43	229.65	229.60	229.69	0.007977	0.83	6.72	36.63	0.62
Reach 4	846	100-year	6.48	229.43	229.65	229.61	229.70	0.011567	0.99	6.59	36.60	0.74
Reach 4	846	Regional	15.89	229.43	229.92		229.96	0.003298	0.96	16.80	39.08	0.46
Reach 4	790	2-year	1.90	228.79	228.99	228.99	229.03	0.032176	1.27	2.69	32.81	1.15
Reach 4	790	5-year	3.10	228.79	229.03	229.03	229.08	0.030409	1.44	3.88	36.04	1.17
Reach 4	790	10-year	3.98	228.79	229.04	229.04	229.11	0.031991	1.59	4.52	37.26	1.22
Reach 4	790	25-year	5.16	228.79	229.10		229.15	0.015393	1.35	6.93	40.97	0.89
Reach 4	790	50-year	6.11	228.79	229.16		229.19	0.009583	1.23	9.47	47.47	0.73
Reach 4	790	100-year	7.08	228.79	229.22		229.24	0.006039	1.09	12.12	48.61	0.59
Reach 4	790	Regional	20.85	228.79	229.87		229.88	0.000775	0.79	46.60	55.66	0.25
Reach 4	763	2-year	1.90	228.45	228.82		228.83	0.001553	0.46	5.89	30.40	0.29
Reach 4	763	5-year	3.10	228.45	228.92		228.93	0.001211	0.51	9.05	33.11	0.27
Reach 4	763	10-year	3.98	228.45	228.98		228.99	0.001101	0.54	11.26	36.39	0.26
Reach 4	763	25-year	5.16	228.45	229.06		229.07	0.000935	0.55	14.19	37.38	0.25
Reach 4	763	50-year	6.11	228.45	229.12		229.13	0.000843	0.57	16.49	38.13	0.24
Reach 4	763	100-year	7.08	228.45	229.18		229.19	0.000772	0.58	18.75	38.86	0.23
Reach 4	763	Regional	20.85	228.45	229.85		229.87	0.000414	0.69	46.31	42.10	0.19
Reach 4	727	2-year	1.90	228.36	228.79	228.58	228.79	0.000647	0.31	6.12	22.28	0.19
Reach 4	727	5-year	3.10	228.36	228.89	228.62	228.90	0.000615	0.38	8.45	23.01	0.19
Reach 4	727	10-year	3.98	228.36	228.95	228.65	228.96	0.000596	0.41	9.98	23.47	0.19
Reach 4	727	25-year	5.16	228.36	229.03	228.68	229.05	0.000573	0.45	11.91	23.99	0.20
Reach 4	727	50-year	6.11	228.36	229.10	228.71	229.11	0.000557	0.48	13.39	24.35	0.20
Reach 4	727	100-year	7.08	228.36	229.16	228.73	229.17	0.000541	0.50	14.85	24.69	0.20
Reach 4	727	Regional	20.85	228.36	229.83	228.96	229.85	0.000403	0.69	35.25	35.65	0.19
Reach 4	692.338	2-year	1.90	228.35	228.62	228.62	228.71	0.018333	1.40	1.52	34.26	0.96
Reach 4	692.338	5-year	3.10	228.35	228.69	228.69	228.82	0.016917	1.64	2.17	35.81	0.97
Reach 4	692.338	10-year	3.98	228.35	228.74	228.74	228.88	0.016245	1.77	2.59	36.56	0.97
Reach 4	692.338	25-year	5.16	228.35	228.79	228.79	228.97	0.015907	1.94	3.07	38.11	0.99
Reach 4	692.338	50-year	6.11	228.35	228.84	228.84	229.03	0.015696	2.06	3.43	39.07	1.00
Reach 4	692.338	100-year	7.08	228.35	228.88	228.88	229.09	0.015453	2.17	3.78	39.93	1.00
Reach 4	692.338	Regional	20.85	228.35	229.32	229.32	229.76	0.013470	3.15	7.69	46.19	1.04
Reach 4	670		Culvert									
Reach 4	638.888	2-year	1.70	227.81	228.07	228.01	228.11	0.006325	0.82	2.19	29.46	0.56
Reach 4	638.888	5-year	2.79	227.81	228.12	228.07	228.18	0.009012	1.11	2.66	30.94	0.69
Reach 4	638.888	10-year	4.90	227.81	228.17	228.15	228.30	0.014769	1.61	3.24	34.96	0.91
Reach 4	638.888	25-year	6.36	227.81	228.21	228.21	228.38	0.016815	1.86	3.65	37.83	0.99
Reach 4	638.888	50-year	7.51	227.81	228.25	228.25	228.44	0.016215	1.96	4.08	39.55	0.99
Reach 4	638.888	100-year	8.69	227.81	228.29	228.29	228.50	0.016133	2.07	4.47	40.33	1.01
Reach 4	638.888	Regional	23.84	227.81	228.69	228.69	229.09	0.013353	2.91	8.73	45.34	1.02
Reach 4	638.543	2-year	1.70	227.84	228.00		228.02	0.009998	0.79	3.61	46.03	0.66
Reach 4	638.543	5-year	2.79	227.84	228.03		228.06	0.011041	0.94	5.02	47.07	0.72
Reach 4	638.543	10-year	4.90	227.84	228.08		228.11	0.011455	1.12	7.29	47.43	0.76
Reach 4	638.543	25-year	6.36	227.84	228.10		228.15	0.011997	1.24	8.52	47.61	0.79
Reach 4	638.543	50-year	7.51	227.84	228.12		228.17	0.011771	1.30	9.56	47.77	0.80
Reach 4	638.543	100-year	8.69	227.84	228.14		228.20	0.011616	1.35	10.55	47.91	0.80
Reach 4	638.543	Regional	23.84	227.84	228.37		228.46	0.009478	1.78	21.41	49.49	0.79
Reach 4	618.4043	2-year	1.70	227.68	227.76	227.74	227.78	0.029823	0.77	2.66	33.01	0.99
Reach 4	618.4043	5-year	2.79	227.68	227.79	227.76	227.82	0.024255	0.93	3.80	33.72	0.96
Reach 4	618.4043	10-year	4.90	227.68	227.85		227.89	0.019645	1.13	5.69	34.88	0.93
Reach 4	618.4043	25-year	6.36	227.68	227.88		227.93	0.017443	1.23	6.93	35.62	0.91
Reach 4	618.4043	50-year	7.51	227.68	227.91		227.96	0.016675	1.30	7.79	36.12	0.91
Reach 4	618.4043	100-year	8.69	227.68	227.93		227.99	0.016026	1.37	8.63	36.61	0.91
Reach 4	618.4043	Regional	23.84	227.68	228.15		228.28	0.013188	1.95	17.46	41.26	0.92
Reach 4	589.1152	2-year	1.70	227.07	227.33	227.30	227.35	0.008460	0.70	4.01	40.05	0.60
Reach 4	589.1152	5-year	2.79	227.07	227.36	227.33	227.39	0.009627	0.85	5.31	40.37	0.66
Reach 4	589.1152	10-year	4.90	227.07	227.41	227.37	227.44	0.011851	1.08	7.13	40.80	0.76
Reach 4	589.1152	25-year	6.36	227.07	227.43	227.39	227.48	0.013545	1.22	8.06	41.02	0.82
Reach 4	589.1152	50-year	7.51	227.07	227.45	227.41	227.50	0.014545	1.31	8.75	41.18	0.86
Reach 4	589.1152	100-year	8.69	227.07	227.46	227.42	227.52	0.015490	1.40	9.41	41.34	0.90
Reach 4	589.1152	Regional	23.84	227.07	227.61	227.59	227.77	0.023317	2.33	15.46	42.98	1.19
Reach 4	540.9416	2-year	1.70	226.72	226.77	226.75	226.79	0.033527	0.56	2.77	38.23	0.95

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	540.9416	5-year	2.79	226.72	226.80	226.78	226.83	0.026643	0.79	4.20	43.53	0.96
Reach 4	540.9416	10-year	4.90	226.72	226.86		226.89	0.019172	1.00	6.95	50.89	0.90
Reach 4	540.9416	25-year	6.36	226.72	226.90		226.93	0.016116	1.08	8.72	51.05	0.86
Reach 4	540.9416	50-year	7.51	226.72	226.92		226.95	0.014739	1.13	9.97	51.17	0.84
Reach 4	540.9416	100-year	8.69	226.72	226.94		226.98	0.013694	1.18	11.18	51.27	0.82
Reach 4	540.9416	Regional	23.84	226.72	227.20		227.25	0.008459	1.57	24.24	52.43	0.74
Reach 4	487.0009	2-year	1.70	226.22	226.35		226.36	0.003307	0.41	5.53	35.60	0.37
Reach 4	487.0009	5-year	2.79	226.22	226.41		226.41	0.003402	0.53	7.43	36.67	0.40
Reach 4	487.0009	10-year	4.90	226.22	226.48		226.50	0.003615	0.69	10.34	38.17	0.44
Reach 4	487.0009	25-year	6.36	226.22	226.53		226.55	0.003685	0.78	12.11	39.14	0.45
Reach 4	487.0009	50-year	7.51	226.22	226.56		226.58	0.003741	0.84	13.39	39.83	0.47
Reach 4	487.0009	100-year	8.69	226.22	226.59		226.62	0.003767	0.90	14.66	40.49	0.47
Reach 4	487.0009	Regional	23.84	226.22	226.90		226.94	0.003938	1.37	27.69	45.74	0.54
Reach 4	459.8704	2-year	1.70	225.93	226.09	226.09	226.14	0.026503	0.98	1.73	17.72	1.01
Reach 4	459.8704	5-year	2.79	225.93	226.13	226.13	226.20	0.024030	1.12	2.50	20.82	1.00
Reach 4	459.8704	10-year	4.90	225.93	226.19	226.19	226.28	0.020148	1.33	3.85	23.88	0.98
Reach 4	459.8704	25-year	6.36	225.93	226.23	226.23	226.33	0.018957	1.44	4.69	25.01	0.98
Reach 4	459.8704	50-year	7.51	225.93	226.25	226.25	226.37	0.018000	1.51	5.35	25.86	0.97
Reach 4	459.8704	100-year	8.69	225.93	226.28	226.28	226.40	0.017517	1.58	5.97	26.64	0.97
Reach 4	459.8704	Regional	23.84	225.93	226.52	226.52	226.73	0.013756	2.14	13.34	34.51	0.96
Reach 4	428.8159	2-year	1.70	225.43	225.71		225.72	0.003274	0.57	3.36	21.09	0.40
Reach 4	428.8159	5-year	2.79	225.43	225.77		225.79	0.003439	0.69	4.75	24.14	0.43
Reach 4	428.8159	10-year	4.90	225.43	225.86		225.90	0.003440	0.85	7.26	28.44	0.45
Reach 4	428.8159	25-year	6.36	225.43	225.91		225.95	0.003645	0.95	8.66	30.38	0.47
Reach 4	428.8159	50-year	7.51	225.43	225.95		226.00	0.003490	0.99	10.00	32.11	0.47
Reach 4	428.8159	100-year	8.69	225.43	225.98		226.03	0.003812	1.08	10.86	33.91	0.50
Reach 4	428.8159	Regional	23.84	225.43	226.26		226.36	0.004589	1.61	22.41	46.43	0.59
Reach 4	394.871	2-year	1.70	225.26	225.44	225.43	225.49	0.020738	1.05	1.70	15.34	0.93
Reach 4	394.871	5-year	2.79	225.26	225.49	225.48	225.56	0.018500	1.23	2.50	17.63	0.93
Reach 4	394.871	10-year	4.90	225.26	225.55	225.55	225.66	0.017950	1.50	3.80	20.56	0.97
Reach 4	394.871	25-year	6.36	225.26	225.61	225.61	225.72	0.015476	1.58	4.91	23.66	0.93
Reach 4	394.871	50-year	7.51	225.26	225.62	225.62	225.76	0.017415	1.74	5.34	24.54	0.99
Reach 4	394.871	100-year	8.69	225.26	225.68	225.68	225.80	0.013403	1.69	6.79	31.65	0.89
Reach 4	394.871	Regional	23.84	225.26	225.93	225.93	226.12	0.011597	2.24	16.62	45.16	0.91
Reach 4	349.2437	2-year	1.70	224.34	224.62	224.60	224.68	0.015498	1.12	1.63	12.13	0.85
Reach 4	349.2437	5-year	2.79	224.34	224.67	224.67	224.76	0.016600	1.38	2.33	14.57	0.92
Reach 4	349.2437	10-year	4.90	224.34	224.76	224.76	224.88	0.015112	1.64	3.74	17.20	0.93
Reach 4	349.2437	25-year	6.36	224.34	224.81	224.81	224.95	0.014423	1.77	4.66	18.72	0.93
Reach 4	349.2437	50-year	7.51	224.34	224.84	224.84	224.99	0.014151	1.86	5.35	19.78	0.93
Reach 4	349.2437	100-year	8.69	224.34	224.88	224.88	225.04	0.013768	1.94	6.05	20.72	0.93
Reach 4	349.2437	Regional	23.84	224.34	225.19	225.19	225.45	0.012503	2.64	13.77	28.64	0.97
Reach 4	315.6893	2-year	1.70	223.71	223.98	223.98	224.06	0.022478	1.22	1.41	9.90	1.00
Reach 4	315.6893	5-year	2.79	223.71	224.04	224.04	224.14	0.019751	1.43	2.03	11.02	0.99
Reach 4	315.6893	10-year	4.90	223.71	224.14	224.14	224.28	0.016673	1.68	3.18	12.95	0.97
Reach 4	315.6893	25-year	6.36	223.71	224.19	224.19	224.35	0.015487	1.81	3.95	14.09	0.96
Reach 4	315.6893	50-year	7.51	223.71	224.23	224.23	224.41	0.014818	1.90	4.54	14.90	0.95
Reach 4	315.6893	100-year	8.69	223.71	224.27	224.27	224.46	0.014137	1.98	5.15	15.70	0.95
Reach 4	315.6893	Regional	23.84	223.71	224.63	224.63	224.94	0.011850	2.69	11.98	22.52	0.96
Reach 4	275.2624	2-year	1.70	223.35	223.67		223.68	0.001941	0.51	3.48	16.20	0.32
Reach 4	275.2624	5-year	2.79	223.35	223.76		223.78	0.001743	0.60	5.18	19.20	0.32
Reach 4	275.2624	10-year	4.90	223.35	223.90		223.93	0.001645	0.72	8.10	22.96	0.33
Reach 4	275.2624	25-year	6.36	223.35	223.98		224.01	0.001614	0.79	9.97	25.00	0.33
Reach 4	275.2624	50-year	7.51	223.35	224.04		224.07	0.001603	0.84	11.37	26.43	0.34
Reach 4	275.2624	100-year	8.69	223.35	224.09		224.12	0.001600	0.88	12.75	27.77	0.34
Reach 4	275.2624	Regional	23.84	223.35	224.54		224.60	0.001683	1.27	28.04	40.82	0.38
Reach 4	229.0522	2-year	1.70	223.05	223.40	223.38	223.48	0.014720	1.34	1.44	8.23	0.87
Reach 4	229.0522	5-year	2.79	223.05	223.47	223.47	223.59	0.015395	1.63	2.08	9.85	0.93
Reach 4	229.0522	10-year	4.90	223.05	223.59	223.59	223.75	0.013347	1.90	3.49	12.99	0.92
Reach 4	229.0522	25-year	6.36	223.05	223.66	223.66	223.84	0.012718	2.04	4.43	14.74	0.92
Reach 4	229.0522	50-year	7.51	223.05	223.71	223.71	223.89	0.012295	2.13	5.17	15.98	0.91
Reach 4	229.0522	100-year	8.69	223.05	223.75	223.75	223.95	0.011891	2.21	5.93	17.17	0.91
Reach 4	229.0522	Regional	23.84	223.05	224.14	224.14	224.42	0.010724	2.92	14.54	27.47	0.94
Reach 4	173.0601	2-year	1.70	222.67	222.96		222.99	0.005581	0.74	2.51	16.29	0.52
Reach 4	173.0601	5-year	2.79	222.67	223.04		223.07	0.004842	0.85	3.85	19.25	0.51
Reach 4	173.0601	10-year	4.90	222.67	223.15		223.19	0.004321	1.01	6.24	23.62	0.51
Reach 4	173.0601	25-year	6.36	222.67	223.21		223.26	0.004070	1.08	7.85	26.16	0.51
Reach 4	173.0601	50-year	7.51	222.67	223.26		223.31	0.003948	1.13	9.08	28.16	0.51
Reach 4	173.0601	100-year	8.69	222.67	223.30		223.36	0.003837	1.18	10.33	30.06	0.51

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	173.0601	Regional	23.84	222.67	223.68		223.77	0.003363	1.58	24.54	44.43	0.52
Reach 4	153.1	2-year	1.70	222.33	222.72	222.67	222.77	0.007125	1.16	2.43	12.82	0.64
Reach 4	153.1	5-year	2.79	222.33	222.80	222.74	222.86	0.007706	1.39	3.53	15.16	0.69
Reach 4	153.1	10-year	4.90	222.33	222.91	222.85	222.99	0.008163	1.68	5.38	17.96	0.74
Reach 4	153.1	25-year	6.36	222.33	222.97	222.90	223.07	0.008568	1.85	6.47	19.40	0.77
Reach 4	153.1	50-year	7.51	222.33	223.01	222.94	223.12	0.008790	1.96	7.30	20.42	0.79
Reach 4	153.1	100-year	8.69	222.33	223.05	222.98	223.16	0.008974	2.06	8.13	21.51	0.81
Reach 4	153.1	Regional	23.84	222.33	223.41	223.32	223.59	0.009294	2.80	17.67	30.69	0.88
Reach 4	137.87	2-year	1.70	221.96	222.27	222.26	222.34	0.020766	1.16	1.47	9.78	0.96
Reach 4	137.87	5-year	2.79	221.96	222.33	222.32	222.42	0.019336	1.37	2.06	10.99	0.97
Reach 4	137.87	10-year	4.90	221.96	222.41	222.41	222.55	0.017477	1.66	3.11	12.84	0.98
Reach 4	137.87	25-year	6.36	221.96	222.47	222.47	222.63	0.016102	1.78	3.85	14.00	0.97
Reach 4	137.87	50-year	7.51	221.96	222.51	222.51	222.68	0.015312	1.87	4.43	14.83	0.96
Reach 4	137.87	100-year	8.69	221.96	222.55	222.55	222.73	0.014660	1.95	5.01	15.63	0.96
Reach 4	137.87	Regional	23.84	221.96	222.93	222.93	223.21	0.010558	2.53	12.68	26.08	0.90
Reach 4	99.65	2-year	1.70	221.71	221.94	221.85	221.96	0.003396	0.50	3.37	20.21	0.39
Reach 4	99.65	5-year	2.79	221.71	222.00	221.89	222.02	0.003731	0.61	4.59	22.52	0.43
Reach 4	99.65	10-year	4.90	221.71	222.08	221.96	222.11	0.004094	0.78	6.37	25.31	0.47
Reach 4	99.65	25-year	6.36	221.71	222.12	222.00	222.16	0.004309	0.88	7.45	26.87	0.50
Reach 4	99.65	50-year	7.51	221.71	222.15	222.02	222.19	0.004429	0.95	8.27	27.99	0.51
Reach 4	99.65	100-year	8.69	221.71	222.18	222.04	222.23	0.004544	1.01	9.08	29.01	0.52
Reach 4	99.65	Regional	23.84	221.71	222.43	222.29	222.55	0.005470	1.56	17.70	37.64	0.63
Reach 4	11.71822	2-year	1.70	221.55	221.59	221.59	221.62	0.076044	0.76	1.99	27.27	1.40
Reach 4	11.71822	5-year	2.79	221.55	221.62	221.62	221.67	0.068527	1.09	2.78	27.91	1.48
Reach 4	11.71822	10-year	4.90	221.55	221.66	221.66	221.74	0.058774	1.44	4.13	28.96	1.49
Reach 4	11.71822	25-year	6.36	221.55	221.69	221.69	221.78	0.054345	1.60	4.97	29.59	1.49
Reach 4	11.71822	50-year	7.51	221.55	221.71	221.71	221.81	0.052886	1.70	5.55	30.03	1.50
Reach 4	11.71822	100-year	8.69	221.55	221.73	221.73	221.84	0.050155	1.78	6.18	30.50	1.48
Reach 4	11.71822	Regional	23.84	221.55	221.93	221.93	222.13	0.039513	2.58	12.58	34.73	1.49

HEC-RAS Plan: Feb2024_Proposed_6hr_Controlled

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	790	2-year	1.06	228.79	229.06	229.06	229.15	0.019593	1.34	0.81	38.37	0.97
Reach 4	790	5-year	1.38	228.79	229.09	229.09	229.20	0.018465	1.46	0.98	40.31	0.97
Reach 4	790	10-year	1.88	228.79	229.14	229.14	229.27	0.017736	1.62	1.21	46.42	0.98
Reach 4	790	25-year	2.57	228.79	229.20	229.20	229.36	0.016621	1.80	1.50	48.35	0.98
Reach 4	790	50-year	3.18	228.79	229.25	229.25	229.44	0.016206	1.94	1.72	49.35	0.99
Reach 4	790	100-year	3.74	228.79	229.30	229.30	229.50	0.015772	2.05	1.92	50.06	0.99
Reach 4	790	Regional	17.61	228.79	230.05	230.05	230.63	0.011731	3.46	5.37	56.21	1.01
Reach 4	763	2-year	1.06	228.45	228.74		228.74	0.002044	0.42	3.49	28.05	0.31
Reach 4	763	5-year	1.38	228.45	228.77		228.78	0.001819	0.44	4.43	28.99	0.30
Reach 4	763	10-year	1.88	228.45	228.82		228.82	0.001562	0.46	5.83	30.35	0.29
Reach 4	763	25-year	2.57	228.45	228.88		228.88	0.001328	0.49	7.68	32.04	0.27
Reach 4	763	50-year	3.18	228.45	228.92		228.93	0.001195	0.51	9.24	33.25	0.27
Reach 4	763	100-year	3.74	228.45	228.96		228.97	0.001107	0.52	10.67	35.14	0.26
Reach 4	763	Regional	17.61	228.45	229.71		229.73	0.000450	0.67	40.49	41.68	0.20
Reach 4	727	2-year	1.06	228.36	228.70	228.54	228.70	0.000685	0.25	4.20	21.67	0.18
Reach 4	727	5-year	1.38	228.36	228.73	228.56	228.74	0.000674	0.28	4.95	21.91	0.19
Reach 4	727	10-year	1.88	228.36	228.78	228.58	228.79	0.000655	0.31	6.06	22.26	0.19
Reach 4	727	25-year	2.57	228.36	228.84	228.61	228.85	0.000630	0.35	7.45	22.70	0.19
Reach 4	727	50-year	3.18	228.36	228.89	228.63	228.90	0.000615	0.38	8.57	23.05	0.19
Reach 4	727	100-year	3.74	228.36	228.94	228.65	228.94	0.000600	0.40	9.58	23.35	0.19
Reach 4	727	Regional	17.61	228.36	229.69	228.91	229.71	0.000429	0.66	30.39	33.50	0.19
Reach 4	692.338	2-year	1.06	228.35	228.55	228.55	228.62	0.020061	1.16	0.96	29.33	0.95
Reach 4	692.338	5-year	1.38	228.35	228.58	228.58	228.66	0.017857	1.23	1.23	33.12	0.92
Reach 4	692.338	10-year	1.88	228.35	228.62	228.62	228.71	0.017527	1.37	1.53	34.31	0.94
Reach 4	692.338	25-year	2.57	228.35	228.66	228.66	228.77	0.017193	1.53	1.91	35.32	0.96
Reach 4	692.338	50-year	3.18	228.35	228.70	228.70	228.82	0.016646	1.64	2.22	35.89	0.96
Reach 4	692.338	100-year	3.74	228.35	228.72	228.72	228.87	0.016794	1.75	2.46	36.33	0.98
Reach 4	692.338	Regional	17.61	228.35	229.23	229.23	229.62	0.013693	2.96	6.90	45.50	1.04
Reach 4	670		Culvert									
Reach 4	638.888	2-year	0.82	227.81	228.02	227.95	228.03	0.004075	0.54	1.59	24.62	0.43
Reach 4	638.888	5-year	1.31	227.81	228.05	227.99	228.08	0.005307	0.71	1.97	28.03	0.51
Reach 4	638.888	10-year	2.70	227.81	228.12	228.06	228.17	0.008790	1.09	2.63	30.84	0.68
Reach 4	638.888	25-year	3.50	227.81	228.14	228.10	228.22	0.010761	1.28	2.90	31.92	0.77
Reach 4	638.888	50-year	4.17	227.81	228.16	228.12	228.26	0.012580	1.44	3.08	33.53	0.84
Reach 4	638.888	100-year	4.94	227.81	228.17	228.16	228.30	0.014773	1.62	3.25	35.07	0.92
Reach 4	638.888	Regional	22.78	227.81	228.66	228.66	229.06	0.013380	2.86	8.49	45.08	1.02
Reach 4	638.543	2-year	0.82	227.84	227.96		227.97	0.008321	0.59	2.08	33.64	0.57
Reach 4	638.543	5-year	1.31	227.84	227.98		228.00	0.009509	0.71	2.95	41.44	0.63
Reach 4	638.543	10-year	2.70	227.84	228.02		228.05	0.010990	0.93	4.91	47.05	0.71
Reach 4	638.543	25-year	3.50	227.84	228.04		228.08	0.011370	1.01	5.82	47.21	0.74
Reach 4	638.543	50-year	4.17	227.84	228.06		228.10	0.011559	1.07	6.52	47.32	0.75
Reach 4	638.543	100-year	4.94	227.84	228.07		228.11	0.011768	1.14	7.26	47.43	0.77
Reach 4	638.543	Regional	22.78	227.84	228.35		228.44	0.009579	1.76	20.73	49.39	0.80
Reach 4	618.4043	2-year	0.82	227.68	227.72	227.72	227.74	0.041404	0.54	1.56	32.30	1.02
Reach 4	618.4043	5-year	1.31	227.68	227.74	227.73	227.76	0.033082	0.68	2.21	32.72	1.00
Reach 4	618.4043	10-year	2.70	227.68	227.79	227.76	227.82	0.024556	0.92	3.71	33.67	0.96
Reach 4	618.4043	25-year	3.50	227.68	227.81	227.78	227.85	0.022161	1.01	4.48	34.14	0.95
Reach 4	618.4043	50-year	4.17	227.68	227.83		227.87	0.020710	1.07	5.08	34.51	0.94
Reach 4	618.4043	100-year	4.94	227.68	227.85		227.89	0.019652	1.14	5.72	34.90	0.93
Reach 4	618.4043	Regional	22.78	227.68	228.14		228.26	0.013261	1.92	16.92	41.16	0.92
Reach 4	589.1152	2-year	0.82	227.07	227.29	227.27	227.30	0.007436	0.57	2.43	36.06	0.55
Reach 4	589.1152	5-year	1.31	227.07	227.32	227.29	227.33	0.008064	0.64	3.41	39.64	0.58
Reach 4	589.1152	10-year	2.70	227.07	227.36	227.33	227.38	0.009535	0.83	5.22	40.34	0.66
Reach 4	589.1152	25-year	3.50	227.07	227.38	227.35	227.41	0.010447	0.93	5.99	40.53	0.70
Reach 4	589.1152	50-year	4.17	227.07	227.40	227.36	227.42	0.011178	1.00	6.55	40.66	0.73
Reach 4	589.1152	100-year	4.94	227.07	227.41	227.37	227.44	0.011845	1.08	7.17	40.81	0.76
Reach 4	589.1152	Regional	22.78	227.07	227.60	227.58	227.75	0.022972	2.28	15.10	42.88	1.18
Reach 4	540.9416	2-year	0.82	226.72	226.73		226.75	0.043128	0.18	1.53	26.59	0.80
Reach 4	540.9416	5-year	1.31	226.72	226.75		226.77	0.037196	0.41	2.23	34.86	0.92
Reach 4	540.9416	10-year	2.70	226.72	226.80	226.78	226.83	0.027190	0.78	4.09	43.12	0.96
Reach 4	540.9416	25-year	3.50	226.72	226.82		226.85	0.023236	0.88	5.15	46.44	0.93
Reach 4	540.9416	50-year	4.17	226.72	226.84		226.87	0.020926	0.94	6.02	49.61	0.91
Reach 4	540.9416	100-year	4.94	226.72	226.86		226.89	0.019193	1.01	6.99	50.90	0.90
Reach 4	540.9416	Regional	22.78	226.72	227.18		227.24	0.008634	1.55	23.42	52.36	0.74
Reach 4	487.0009	2-year	0.82	226.22	226.30		226.30	0.003194	0.28	3.59	34.31	0.33
Reach 4	487.0009	5-year	1.31	226.22	226.33		226.34	0.003265	0.36	4.74	35.08	0.36
Reach 4	487.0009	10-year	2.70	226.22	226.40		226.41	0.003386	0.52	7.29	36.60	0.40

HEC-RAS Plan: Feb2024_Proposed_6hr_Controlled (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	487.0009	25-year	3.50	226.22	226.43		226.44	0.003496	0.59	8.48	37.18	0.42
Reach 4	487.0009	50-year	4.17	226.22	226.46		226.47	0.003570	0.64	9.39	37.63	0.43
Reach 4	487.0009	100-year	4.94	226.22	226.49		226.50	0.003611	0.70	10.40	38.20	0.44
Reach 4	487.0009	Regional	22.78	226.22	226.88		226.92	0.003923	1.34	26.91	45.45	0.53
Reach 4	459.8704	2-year	0.82	225.93	226.05	226.05	226.08	0.029972	0.82	1.00	14.64	1.01
Reach 4	459.8704	5-year	1.31	225.93	226.08	226.08	226.12	0.028055	0.93	1.42	16.59	1.01
Reach 4	459.8704	10-year	2.70	225.93	226.13	226.13	226.19	0.024386	1.11	2.43	20.60	1.01
Reach 4	459.8704	25-year	3.50	225.93	226.16	226.16	226.23	0.022240	1.20	2.97	22.48	0.99
Reach 4	459.8704	50-year	4.17	225.93	226.18	226.18	226.26	0.020921	1.26	3.41	23.27	0.98
Reach 4	459.8704	100-year	4.94	225.93	226.19	226.19	226.28	0.020220	1.33	3.87	23.91	0.98
Reach 4	459.8704	Regional	22.78	225.93	226.50	226.50	226.71	0.013968	2.12	12.83	34.03	0.96
Reach 4	428.8159	2-year	0.82	225.43	225.64		225.65	0.002979	0.42	2.07	17.80	0.36
Reach 4	428.8159	5-year	1.31	225.43	225.68		225.69	0.003160	0.51	2.82	19.78	0.38
Reach 4	428.8159	10-year	2.70	225.43	225.76		225.79	0.003426	0.69	4.64	23.92	0.43
Reach 4	428.8159	25-year	3.50	225.43	225.81		225.83	0.003368	0.75	5.68	25.85	0.43
Reach 4	428.8159	50-year	4.17	225.43	225.83		225.86	0.003410	0.80	6.45	27.14	0.44
Reach 4	428.8159	100-year	4.94	225.43	225.87		225.90	0.003416	0.85	7.33	28.54	0.45
Reach 4	428.8159	Regional	22.78	225.43	226.25		226.35	0.004505	1.58	21.78	45.96	0.58
Reach 4	394.871	2-year	0.82	225.26	225.39	225.39	225.42	0.025492	0.84	0.98	13.15	0.95
Reach 4	394.871	5-year	1.31	225.26	225.42	225.41	225.47	0.022645	0.98	1.39	14.42	0.95
Reach 4	394.871	10-year	2.70	225.26	225.48	225.48	225.56	0.018351	1.21	2.45	17.52	0.92
Reach 4	394.871	25-year	3.50	225.26	225.51	225.51	225.60	0.018938	1.35	2.92	18.62	0.96
Reach 4	394.871	50-year	4.17	225.26	225.53	225.53	225.63	0.018083	1.42	3.37	19.63	0.96
Reach 4	394.871	100-year	4.94	225.26	225.55	225.55	225.66	0.018318	1.52	3.80	20.56	0.98
Reach 4	394.871	Regional	22.78	225.26	225.91	225.91	226.10	0.011900	2.22	15.86	44.42	0.91
Reach 4	349.2437	2-year	0.82	224.34	224.56		224.59	0.013744	0.82	1.02	9.44	0.75
Reach 4	349.2437	5-year	1.31	224.34	224.59	224.57	224.64	0.014720	1.00	1.38	11.08	0.81
Reach 4	349.2437	10-year	2.70	224.34	224.66	224.66	224.75	0.016740	1.37	2.27	14.44	0.92
Reach 4	349.2437	25-year	3.50	224.34	224.70	224.70	224.80	0.015805	1.47	2.84	15.56	0.92
Reach 4	349.2437	50-year	4.17	224.34	224.73	224.73	224.84	0.015337	1.55	3.28	16.39	0.92
Reach 4	349.2437	100-year	4.94	224.34	224.76	224.76	224.88	0.015003	1.64	3.78	17.26	0.92
Reach 4	349.2437	Regional	22.78	224.34	225.17	225.17	225.43	0.012435	2.60	13.31	28.24	0.97
Reach 4	315.6893	2-year	0.82	223.71	223.92	223.92	223.97	0.026602	1.01	0.81	8.07	1.01
Reach 4	315.6893	5-year	1.31	223.71	223.96	223.96	224.02	0.024121	1.12	1.17	9.37	1.00
Reach 4	315.6893	10-year	2.70	223.71	224.04	224.04	224.14	0.019919	1.41	1.98	10.93	0.99
Reach 4	315.6893	25-year	3.50	223.71	224.08	224.08	224.19	0.018377	1.52	2.43	11.73	0.98
Reach 4	315.6893	50-year	4.17	223.71	224.11	224.11	224.23	0.017490	1.61	2.79	12.33	0.97
Reach 4	315.6893	100-year	4.94	223.71	224.14	224.14	224.28	0.016661	1.69	3.20	12.98	0.97
Reach 4	315.6893	Regional	22.78	223.71	224.62	224.62	224.92	0.011475	2.62	11.70	22.27	0.94
Reach 4	275.2624	2-year	0.82	223.35	223.57		223.57	0.002390	0.41	1.99	12.79	0.33
Reach 4	275.2624	5-year	1.31	223.35	223.63		223.64	0.002062	0.47	2.85	14.85	0.32
Reach 4	275.2624	10-year	2.70	223.35	223.76		223.78	0.001751	0.59	5.06	19.01	0.32
Reach 4	275.2624	25-year	3.50	223.35	223.82		223.84	0.001718	0.65	6.18	20.59	0.33
Reach 4	275.2624	50-year	4.17	223.35	223.86		223.88	0.001669	0.69	7.13	21.83	0.33
Reach 4	275.2624	100-year	4.94	223.35	223.91		223.93	0.001644	0.73	8.16	23.03	0.33
Reach 4	275.2624	Regional	22.78	223.35	224.51		224.58	0.001673	1.25	27.08	40.04	0.38
Reach 4	229.0522	2-year	0.82	223.05	223.34	223.30	223.38	0.009316	0.88	0.99	6.87	0.66
Reach 4	229.0522	5-year	1.31	223.05	223.37	223.35	223.44	0.012656	1.16	1.25	7.69	0.79
Reach 4	229.0522	10-year	2.70	223.05	223.46	223.46	223.58	0.015494	1.61	2.02	9.71	0.93
Reach 4	229.0522	25-year	3.50	223.05	223.51	223.51	223.65	0.014444	1.73	2.56	10.99	0.92
Reach 4	229.0522	50-year	4.17	223.05	223.55	223.55	223.70	0.013990	1.82	3.00	11.96	0.92
Reach 4	229.0522	100-year	4.94	223.05	223.59	223.59	223.75	0.013305	1.90	3.52	13.05	0.92
Reach 4	229.0522	Regional	22.78	223.05	224.12	224.12	224.40	0.010811	2.89	13.94	26.88	0.94
Reach 4	173.0601	2-year	0.82	222.67	222.88		222.90	0.007642	0.62	1.34	11.74	0.56
Reach 4	173.0601	5-year	1.31	222.67	222.93		222.95	0.006146	0.69	1.99	14.50	0.53
Reach 4	173.0601	10-year	2.70	222.67	223.03		223.06	0.004887	0.85	3.74	19.03	0.51
Reach 4	173.0601	25-year	3.50	222.67	223.08		223.12	0.004614	0.91	4.68	20.87	0.51
Reach 4	173.0601	50-year	4.17	222.67	223.11		223.15	0.004423	0.96	5.44	22.27	0.51
Reach 4	173.0601	100-year	4.94	222.67	223.15		223.20	0.004311	1.01	6.29	23.71	0.51
Reach 4	173.0601	Regional	22.78	222.67	223.66		223.75	0.003376	1.56	23.61	43.57	0.52
Reach 4	153.1	2-year	0.82	222.33	222.63	222.57	222.66	0.006020	0.87	1.42	9.95	0.56
Reach 4	153.1	5-year	1.31	222.33	222.69	222.63	222.73	0.006706	1.05	2.02	11.81	0.61
Reach 4	153.1	10-year	2.70	222.33	222.79	222.73	222.85	0.007675	1.38	3.44	14.99	0.69
Reach 4	153.1	25-year	3.50	222.33	222.84	222.78	222.91	0.007724	1.49	4.23	16.31	0.70
Reach 4	153.1	50-year	4.17	222.33	222.88	222.82	222.95	0.008030	1.59	4.77	17.11	0.73
Reach 4	153.1	100-year	4.94	222.33	222.91	222.85	223.00	0.008180	1.69	5.41	18.01	0.74
Reach 4	153.1	Regional	22.78	222.33	223.40	223.30	223.57	0.009049	2.74	17.23	30.34	0.87

HEC-RAS Plan: Feb2024_Proposed_6hr_Controlled (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	137.87	2-year	0.82	221.96	222.19	222.19	222.25	0.025236	1.01	0.82	7.78	0.99
Reach 4	137.87	5-year	1.31	221.96	222.24	222.24	222.30	0.022246	1.10	1.19	8.98	0.97
Reach 4	137.87	10-year	2.70	221.96	222.32	222.32	222.42	0.019410	1.35	2.01	10.91	0.97
Reach 4	137.87	25-year	3.50	221.96	222.35	222.35	222.47	0.019485	1.50	2.39	11.60	1.00
Reach 4	137.87	50-year	4.17	221.96	222.38	222.38	222.51	0.018410	1.58	2.73	12.21	0.99
Reach 4	137.87	100-year	4.94	221.96	222.42	222.42	222.55	0.017425	1.66	3.13	12.88	0.98
Reach 4	137.87	Regional	22.78	221.96	222.90	222.90	223.19	0.011071	2.53	11.96	25.24	0.92
Reach 4	99.65	2-year	0.82	221.71	221.88		221.89	0.002959	0.38	2.14	17.51	0.35
Reach 4	99.65	5-year	1.31	221.71	221.92	221.83	221.93	0.003215	0.46	2.87	19.15	0.38
Reach 4	99.65	10-year	2.70	221.71	222.00	221.89	222.02	0.003704	0.60	4.50	22.38	0.43
Reach 4	99.65	25-year	3.50	221.71	222.03	221.92	222.05	0.003852	0.67	5.23	23.57	0.44
Reach 4	99.65	50-year	4.17	221.71	222.05	221.94	222.08	0.003974	0.73	5.79	24.44	0.46
Reach 4	99.65	100-year	4.94	221.71	222.08	221.96	222.11	0.004105	0.79	6.40	25.36	0.47
Reach 4	99.65	Regional	22.78	221.71	222.42	222.27	222.53	0.005432	1.53	17.15	37.21	0.62
Reach 4	11.71822	2-year	0.82	221.55	221.56	221.56	221.58	0.089685	0.17	1.16	23.83	1.02
Reach 4	11.71822	5-year	1.31	221.55	221.57	221.57	221.61	0.081588	0.57	1.66	26.99	1.34
Reach 4	11.71822	10-year	2.70	221.55	221.61	221.61	221.66	0.069549	1.07	2.72	27.85	1.48
Reach 4	11.71822	25-year	3.50	221.55	221.63	221.63	221.69	0.066237	1.24	3.24	28.26	1.51
Reach 4	11.71822	50-year	4.17	221.55	221.65	221.65	221.71	0.062794	1.35	3.66	28.60	1.51
Reach 4	11.71822	100-year	4.94	221.55	221.66	221.66	221.74	0.058387	1.45	4.16	28.98	1.49
Reach 4	11.71822	Regional	22.78	221.55	221.92	221.92	222.11	0.039863	2.52	12.19	34.50	1.48

HEC-RAS Plan: Feb2024_Proposed_12hr_Controlled River: Campbell's TribA Reach: Reach 4

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	790	2-year	0.97	228.79	229.04	229.04	229.13	0.021320	1.33	0.75	37.04	1.00
Reach 4	790	5-year	1.62	228.79	229.11	229.11	229.24	0.018630	1.56	1.08	42.32	0.99
Reach 4	790	10-year	2.08	228.79	229.16	229.16	229.30	0.017472	1.68	1.29	47.44	0.98
Reach 4	790	25-year	2.91	228.79	229.23	229.23	229.41	0.016508	1.89	1.62	48.91	0.99
Reach 4	790	50-year	3.66	228.79	229.29	229.29	229.49	0.015951	2.04	1.88	49.97	1.00
Reach 4	790	100-year	4.27	228.79	229.33	229.33	229.56	0.015348	2.14	2.09	50.55	1.00
Reach 4	790	Regional	17.61	228.79	230.05	230.05	230.63	0.011731	3.46	5.37	56.21	1.01
Reach 4	763	2-year	0.97	228.45	228.73		228.73	0.002141	0.42	3.20	27.76	0.32
Reach 4	763	5-year	1.62	228.45	228.79		228.80	0.001682	0.45	5.12	29.67	0.29
Reach 4	763	10-year	2.08	228.45	228.83		228.84	0.001481	0.47	6.38	30.86	0.28
Reach 4	763	25-year	2.91	228.45	228.90		228.91	0.001251	0.50	8.56	32.73	0.27
Reach 4	763	50-year	3.66	228.45	228.96		228.97	0.001116	0.52	10.44	34.24	0.26
Reach 4	763	100-year	4.27	228.45	229.00		229.01	0.001051	0.54	12.00	36.64	0.26
Reach 4	763	Regional	17.61	228.45	229.71		229.73	0.000450	0.67	40.49	41.68	0.20
Reach 4	727	2-year	0.97	228.36	228.69	228.53	228.69	0.000697	0.25	3.95	21.58	0.18
Reach 4	727	5-year	1.62	228.36	228.76	228.57	228.76	0.000663	0.30	5.51	22.09	0.19
Reach 4	727	10-year	2.08	228.36	228.80	228.59	228.81	0.000647	0.33	6.48	22.40	0.19
Reach 4	727	25-year	2.91	228.36	228.87	228.62	228.88	0.000623	0.37	8.09	22.90	0.19
Reach 4	727	50-year	3.66	228.36	228.93	228.64	228.94	0.000603	0.40	9.43	23.31	0.19
Reach 4	727	100-year	4.27	228.36	228.97	228.66	228.98	0.000590	0.42	10.46	23.62	0.20
Reach 4	727	Regional	17.61	228.36	229.69	228.91	229.71	0.000429	0.66	30.39	33.50	0.19
Reach 4	692.338	2-year	0.97	228.35	228.54	228.54	228.61	0.020949	1.14	0.89	26.02	0.96
Reach 4	692.338	5-year	1.62	228.35	228.60	228.60	228.68	0.017652	1.30	1.38	33.72	0.93
Reach 4	692.338	10-year	2.08	228.35	228.63	228.63	228.73	0.017348	1.42	1.65	34.76	0.94
Reach 4	692.338	25-year	2.91	228.35	228.68	228.68	228.80	0.016371	1.58	2.11	35.68	0.95
Reach 4	692.338	50-year	3.66	228.35	228.72	228.72	228.86	0.016425	1.72	2.44	36.30	0.97
Reach 4	692.338	100-year	4.27	228.35	228.75	228.75	228.91	0.016153	1.82	2.71	36.78	0.97
Reach 4	692.338	Regional	17.61	228.35	229.23	229.23	229.62	0.013693	2.96	6.90	45.50	1.04
Reach 4	670		Culvert									
Reach 4	638.888	2-year	0.98	227.81	228.03	227.96	228.05	0.004471	0.60	1.72	26.38	0.46
Reach 4	638.888	5-year	1.70	227.81	228.07	228.01	228.11	0.006326	0.82	2.19	29.46	0.56
Reach 4	638.888	10-year	2.95	227.81	228.12	228.07	228.19	0.009420	1.15	2.72	31.14	0.71
Reach 4	638.888	25-year	3.96	227.81	228.15	228.12	228.25	0.012019	1.39	3.03	33.05	0.82
Reach 4	638.888	50-year	4.76	227.81	228.17	228.15	228.29	0.014374	1.58	3.21	34.70	0.90
Reach 4	638.888	100-year	5.61	227.81	228.19	228.18	228.34	0.016775	1.77	3.38	35.85	0.98
Reach 4	638.888	Regional	22.78	227.81	228.66	228.66	229.06	0.013380	2.86	8.49	45.08	1.02
Reach 4	638.543	2-year	0.98	227.84	227.97		227.98	0.008832	0.63	2.36	36.43	0.60
Reach 4	638.543	5-year	1.70	227.84	228.00		228.02	0.009982	0.79	3.61	46.05	0.66
Reach 4	638.543	10-year	2.95	227.84	228.03		228.06	0.011172	0.96	5.20	47.10	0.72
Reach 4	638.543	25-year	3.96	227.84	228.05		228.09	0.011478	1.05	6.31	47.29	0.75
Reach 4	638.543	50-year	4.76	227.84	228.07		228.11	0.011409	1.11	7.16	47.41	0.76
Reach 4	638.543	100-year	5.61	227.84	228.09		228.13	0.011922	1.19	7.86	47.52	0.78
Reach 4	638.543	Regional	22.78	227.84	228.35		228.44	0.009579	1.76	20.73	49.39	0.80
Reach 4	618.4043	2-year	0.98	227.68	227.73	227.72	227.75	0.036644	0.58	1.80	32.46	1.00
Reach 4	618.4043	5-year	1.70	227.68	227.76	227.74	227.78	0.029867	0.77	2.66	33.01	0.99
Reach 4	618.4043	10-year	2.95	227.68	227.80	227.77	227.83	0.023598	0.95	3.97	33.83	0.96
Reach 4	618.4043	25-year	3.96	227.68	227.82	227.79	227.86	0.021190	1.05	4.89	34.40	0.94
Reach 4	618.4043	50-year	4.76	227.68	227.84		227.89	0.019852	1.12	5.58	34.81	0.93
Reach 4	618.4043	100-year	5.61	227.68	227.86		227.91	0.018509	1.18	6.30	35.24	0.92
Reach 4	618.4043	Regional	22.78	227.68	228.14		228.26	0.013261	1.92	16.92	41.16	0.92
Reach 4	589.1152	2-year	0.98	227.07	227.30	227.28	227.31	0.007809	0.60	2.74	37.34	0.56
Reach 4	589.1152	5-year	1.70	227.07	227.33	227.30	227.35	0.008456	0.70	4.01	40.05	0.60
Reach 4	589.1152	10-year	2.95	227.07	227.37	227.33	227.39	0.009855	0.87	5.47	40.40	0.67
Reach 4	589.1152	25-year	3.96	227.07	227.39	227.35	227.42	0.010951	0.98	6.38	40.62	0.72
Reach 4	589.1152	50-year	4.76	227.07	227.41	227.37	227.44	0.011743	1.06	7.02	40.77	0.76
Reach 4	589.1152	100-year	5.61	227.07	227.42	227.38	227.46	0.012602	1.14	7.61	40.91	0.79
Reach 4	589.1152	Regional	22.78	227.07	227.60	227.58	227.75	0.022972	2.28	15.10	42.88	1.18
Reach 4	540.9416	2-year	0.98	226.72	226.74		226.76	0.038948	0.26	1.78	28.96	0.84
Reach 4	540.9416	5-year	1.70	226.72	226.77	226.75	226.79	0.033525	0.56	2.77	38.24	0.95
Reach 4	540.9416	10-year	2.95	226.72	226.81	226.78	226.83	0.025542	0.81	4.44	44.33	0.95
Reach 4	540.9416	25-year	3.96	226.72	226.84		226.87	0.021545	0.93	5.75	48.66	0.92
Reach 4	540.9416	50-year	4.76	226.72	226.86		226.89	0.019487	0.99	6.79	50.88	0.90
Reach 4	540.9416	100-year	5.61	226.72	226.88		226.91	0.017620	1.04	7.81	50.97	0.88
Reach 4	540.9416	Regional	22.78	226.72	227.18		227.24	0.008634	1.55	23.42	52.36	0.74
Reach 4	487.0009	2-year	0.98	226.22	226.31		226.31	0.003253	0.31	3.96	34.56	0.34
Reach 4	487.0009	5-year	1.70	226.22	226.35		226.36	0.003306	0.41	5.53	35.60	0.37
Reach 4	487.0009	10-year	2.95	226.22	226.41		226.42	0.003440	0.55	7.67	36.79	0.40

HEC-RAS Plan: Feb2024_Proposed_12hr_Controlled River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	487.0009	25-year	3.96	226.22	226.45		226.46	0.003550	0.63	9.11	37.49	0.42
Reach 4	487.0009	50-year	4.76	226.22	226.48		226.49	0.003605	0.69	10.17	38.07	0.44
Reach 4	487.0009	100-year	5.61	226.22	226.51		226.52	0.003652	0.74	11.22	38.65	0.45
Reach 4	487.0009	Regional	22.78	226.22	226.88		226.92	0.003923	1.34	26.91	45.45	0.53
Reach 4	459.8704	2-year	0.98	225.93	226.06	226.06	226.10	0.028404	0.85	1.15	15.56	1.00
Reach 4	459.8704	5-year	1.70	225.93	226.09	226.09	226.14	0.026521	0.99	1.73	17.72	1.01
Reach 4	459.8704	10-year	2.95	225.93	226.14	226.14	226.21	0.023327	1.14	2.61	21.24	1.00
Reach 4	459.8704	25-year	3.96	225.93	226.17	226.17	226.25	0.021267	1.24	3.27	23.08	0.98
Reach 4	459.8704	50-year	4.76	225.93	226.19	226.19	226.28	0.020327	1.32	3.76	23.77	0.98
Reach 4	459.8704	100-year	5.61	225.93	226.21	226.21	226.31	0.019536	1.38	4.26	24.44	0.98
Reach 4	459.8704	Regional	22.78	225.93	226.50	226.50	226.71	0.013968	2.12	12.83	34.03	0.96
Reach 4	428.8159	2-year	0.98	225.43	225.66		225.67	0.003001	0.45	2.33	18.51	0.37
Reach 4	428.8159	5-year	1.70	225.43	225.71		225.72	0.003271	0.57	3.36	21.10	0.40
Reach 4	428.8159	10-year	2.95	225.43	225.78		225.80	0.003369	0.70	5.00	24.65	0.43
Reach 4	428.8159	25-year	3.96	225.43	225.83		225.85	0.003413	0.79	6.20	26.73	0.44
Reach 4	428.8159	50-year	4.76	225.43	225.86		225.89	0.003476	0.85	7.08	28.15	0.45
Reach 4	428.8159	100-year	5.61	225.43	225.89		225.93	0.003498	0.90	7.99	29.48	0.46
Reach 4	428.8159	Regional	22.78	225.43	226.25		226.35	0.004505	1.58	21.78	45.96	0.58
Reach 4	394.871	2-year	0.98	225.26	225.40	225.39	225.44	0.023918	0.88	1.12	13.60	0.94
Reach 4	394.871	5-year	1.70	225.26	225.44	225.43	225.49	0.020783	1.05	1.70	15.33	0.94
Reach 4	394.871	10-year	2.95	225.26	225.49	225.49	225.57	0.018747	1.26	2.59	17.85	0.94
Reach 4	394.871	25-year	3.96	225.26	225.53	225.53	225.62	0.018045	1.39	3.25	19.37	0.95
Reach 4	394.871	50-year	4.76	225.26	225.55	225.55	225.66	0.017353	1.47	3.77	20.50	0.95
Reach 4	394.871	100-year	5.61	225.26	225.58	225.58	225.69	0.017139	1.56	4.28	21.94	0.96
Reach 4	394.871	Regional	22.78	225.26	225.91	225.91	226.10	0.011900	2.22	15.86	44.42	0.91
Reach 4	349.2437	2-year	0.98	224.34	224.57		224.61	0.014302	0.88	1.13	9.96	0.78
Reach 4	349.2437	5-year	1.70	224.34	224.62	224.60	224.68	0.015486	1.12	1.64	12.13	0.85
Reach 4	349.2437	10-year	2.95	224.34	224.68	224.68	224.77	0.016333	1.40	2.45	14.81	0.92
Reach 4	349.2437	25-year	3.96	224.34	224.72	224.72	224.83	0.015436	1.53	3.15	16.15	0.92
Reach 4	349.2437	50-year	4.76	224.34	224.75	224.75	224.87	0.015479	1.63	3.63	17.00	0.93
Reach 4	349.2437	100-year	5.61	224.34	224.78	224.78	224.91	0.014950	1.71	4.17	17.92	0.93
Reach 4	349.2437	Regional	22.78	224.34	225.17	225.17	225.43	0.012435	2.60	13.31	28.24	0.97
Reach 4	315.6893	2-year	0.98	223.71	223.93	223.93	223.99	0.025114	1.03	0.94	8.68	1.00
Reach 4	315.6893	5-year	1.70	223.71	223.98	223.98	224.06	0.022457	1.22	1.41	9.90	1.00
Reach 4	315.6893	10-year	2.95	223.71	224.05	224.05	224.16	0.019419	1.45	2.12	11.18	0.99
Reach 4	315.6893	25-year	3.96	223.71	224.10	224.10	224.22	0.017739	1.58	2.68	12.15	0.97
Reach 4	315.6893	50-year	4.76	223.71	224.13	224.13	224.27	0.016760	1.67	3.11	12.84	0.97
Reach 4	315.6893	100-year	5.61	223.71	224.17	224.17	224.32	0.015924	1.74	3.57	13.53	0.96
Reach 4	315.6893	Regional	22.78	223.71	224.62	224.62	224.92	0.011475	2.62	11.70	22.27	0.94
Reach 4	275.2624	2-year	0.98	223.35	223.59		223.60	0.002240	0.43	2.29	13.52	0.32
Reach 4	275.2624	5-year	1.70	223.35	223.67		223.68	0.001946	0.51	3.48	16.20	0.32
Reach 4	275.2624	10-year	2.95	223.35	223.78		223.80	0.001716	0.61	5.44	19.57	0.32
Reach 4	275.2624	25-year	3.96	223.35	223.85		223.87	0.001680	0.68	6.84	21.46	0.33
Reach 4	275.2624	50-year	4.76	223.35	223.90		223.92	0.001649	0.72	7.92	22.76	0.33
Reach 4	275.2624	100-year	5.61	223.35	223.94		223.97	0.001618	0.76	9.04	24.01	0.33
Reach 4	275.2624	Regional	22.78	223.35	224.51		224.58	0.001673	1.25	27.08	40.04	0.38
Reach 4	229.0522	2-year	0.98	223.05	223.35	223.31	223.40	0.010717	0.99	1.06	7.12	0.72
Reach 4	229.0522	5-year	1.70	223.05	223.40	223.38	223.48	0.014730	1.34	1.44	8.23	0.87
Reach 4	229.0522	10-year	2.95	223.05	223.48	223.48	223.61	0.015323	1.66	2.18	10.08	0.93
Reach 4	229.0522	25-year	3.96	223.05	223.54	223.54	223.69	0.014164	1.80	2.86	11.66	0.92
Reach 4	229.0522	50-year	4.76	223.05	223.58	223.58	223.74	0.013459	1.88	3.40	12.80	0.92
Reach 4	229.0522	100-year	5.61	223.05	223.63	223.63	223.79	0.013003	1.97	3.95	13.87	0.92
Reach 4	229.0522	Regional	22.78	223.05	224.12	224.12	224.40	0.010811	2.89	13.94	26.88	0.94
Reach 4	173.0601	2-year	0.98	222.67	222.89		222.92	0.006883	0.64	1.56	12.64	0.55
Reach 4	173.0601	5-year	1.70	222.67	222.96		222.99	0.005578	0.74	2.51	16.29	0.52
Reach 4	173.0601	10-year	2.95	222.67	223.05		223.08	0.004775	0.87	4.04	19.65	0.51
Reach 4	173.0601	25-year	3.96	222.67	223.10		223.14	0.004483	0.94	5.20	21.84	0.51
Reach 4	173.0601	50-year	4.76	222.67	223.14		223.19	0.004345	1.00	6.09	23.37	0.51
Reach 4	173.0601	100-year	5.61	222.67	223.18		223.23	0.004183	1.04	7.02	24.90	0.51
Reach 4	173.0601	Regional	22.78	222.67	223.66		223.75	0.003376	1.56	23.61	43.57	0.52
Reach 4	153.1	2-year	0.98	222.33	222.65	222.59	222.68	0.006368	0.94	1.61	10.60	0.58
Reach 4	153.1	5-year	1.70	222.33	222.72	222.67	222.77	0.007130	1.16	2.43	12.82	0.64
Reach 4	153.1	10-year	2.95	222.33	222.81	222.75	222.87	0.007711	1.42	3.69	15.48	0.69
Reach 4	153.1	25-year	3.96	222.33	222.87	222.81	222.94	0.007905	1.56	4.61	16.88	0.72
Reach 4	153.1	50-year	4.76	222.33	222.90	222.84	222.99	0.008205	1.67	5.25	17.79	0.74
Reach 4	153.1	100-year	5.61	222.33	222.94	222.87	223.03	0.008370	1.76	5.92	18.69	0.76
Reach 4	153.1	Regional	22.78	222.33	223.40	223.30	223.57	0.009049	2.74	17.23	30.34	0.87

HEC-RAS Plan: Feb2024_Proposed_12hr_Controlled River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	137.87	2-year	0.98	221.96	222.21	222.21	222.27	0.023282	1.03	0.95	8.23	0.97
Reach 4	137.87	5-year	1.70	221.96	222.27	222.26	222.34	0.020744	1.16	1.47	9.79	0.96
Reach 4	137.87	10-year	2.95	221.96	222.33	222.33	222.43	0.019412	1.40	2.13	11.14	0.98
Reach 4	137.87	25-year	3.96	221.96	222.37	222.37	222.50	0.018767	1.56	2.62	12.02	0.99
Reach 4	137.87	50-year	4.76	221.96	222.41	222.41	222.54	0.017675	1.64	3.04	12.72	0.98
Reach 4	137.87	100-year	5.61	221.96	222.44	222.44	222.59	0.016764	1.72	3.47	13.41	0.97
Reach 4	137.87	Regional	22.78	221.96	222.90	222.90	223.19	0.011071	2.53	11.96	25.24	0.92
Reach 4	99.65	2-year	0.98	221.71	221.89		221.90	0.003097	0.41	2.37	18.04	0.36
Reach 4	99.65	5-year	1.70	221.71	221.94	221.85	221.96	0.003398	0.50	3.37	20.21	0.39
Reach 4	99.65	10-year	2.95	221.71	222.01	221.90	222.03	0.003752	0.62	4.74	22.78	0.43
Reach 4	99.65	25-year	3.96	221.71	222.05	221.93	222.07	0.003938	0.71	5.62	24.17	0.45
Reach 4	99.65	50-year	4.76	221.71	222.07	221.96	222.10	0.004061	0.77	6.27	25.16	0.47
Reach 4	99.65	100-year	5.61	221.71	222.10	221.98	222.13	0.004183	0.83	6.91	26.11	0.48
Reach 4	99.65	Regional	22.78	221.71	222.42	222.27	222.53	0.005432	1.53	17.15	37.21	0.62
Reach 4	11.71822	2-year	0.98	221.55	221.56	221.56	221.59	0.078972	0.34	1.39	26.77	1.17
Reach 4	11.71822	5-year	1.70	221.55	221.59	221.59	221.62	0.075349	0.76	2.00	27.27	1.40
Reach 4	11.71822	10-year	2.95	221.55	221.62	221.62	221.67	0.068766	1.13	2.88	27.98	1.49
Reach 4	11.71822	25-year	3.96	221.55	221.64	221.64	221.71	0.063777	1.32	3.53	28.49	1.51
Reach 4	11.71822	50-year	4.76	221.55	221.66	221.66	221.73	0.059983	1.43	4.03	28.88	1.50
Reach 4	11.71822	100-year	5.61	221.55	221.68	221.68	221.76	0.057600	1.53	4.51	29.25	1.50
Reach 4	11.71822	Regional	22.78	221.55	221.92	221.92	222.11	0.039863	2.52	12.19	34.50	1.48

HEC-RAS Plan: Feb2024_Proposed_6hr_Uncontrolled River: Campbell's TribA Reach: Reach 4

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	790	2-year	13.32	228.79	229.85	229.85	230.33	0.012440	3.15	4.46	55.53	1.01
Reach 4	790	5-year	18.84	228.79	230.10	230.10	230.71	0.011599	3.54	5.62	56.34	1.02
Reach 4	790	10-year	22.64	228.79	230.26	230.26	230.95	0.011199	3.77	6.34	56.72	1.02
Reach 4	790	25-year	27.44	228.79	230.45	230.45	231.23	0.010743	4.02	7.21	57.17	1.02
Reach 4	790	50-year	31.25	228.79	230.59	230.59	231.44	0.010407	4.19	7.87	57.82	1.02
Reach 4	790	100-year	34.83	228.79	230.72	230.72	231.63	0.010150	4.34	8.47	58.80	1.02
Reach 4	790	Regional	26.96	228.79	230.43	230.43	231.20	0.010711	3.98	7.14	57.14	1.02
Reach 4	763	2-year	13.32	228.45	229.51		229.53	0.000525	0.64	32.26	41.14	0.21
Reach 4	763	5-year	18.84	228.45	229.77		229.78	0.000435	0.68	42.74	41.85	0.20
Reach 4	763	10-year	22.64	228.45	229.93		229.94	0.000396	0.70	49.51	42.34	0.19
Reach 4	763	25-year	27.44	228.45	230.22		230.23	0.000296	0.69	61.98	44.49	0.17
Reach 4	763	50-year	31.25	228.45	230.58		230.59	0.000196	0.64	79.29	51.79	0.14
Reach 4	763	100-year	34.83	228.45	230.77		230.79	0.000173	0.64	89.82	54.62	0.14
Reach 4	763	Regional	26.96	228.45	230.31		230.32	0.000240	0.64	65.98	46.29	0.15
Reach 4	727	2-year	13.32	228.36	229.49	228.84	229.51	0.000468	0.61	24.03	30.55	0.20
Reach 4	727	5-year	18.84	228.36	229.74	228.93	229.76	0.000419	0.67	32.22	34.32	0.19
Reach 4	727	10-year	22.64	228.36	229.90	228.99	229.93	0.000390	0.71	37.94	36.79	0.19
Reach 4	727	25-year	27.44	228.36	230.21	229.06	230.22	0.000154	0.51	88.52	87.75	0.12
Reach 4	727	50-year	31.25	228.36	230.57	229.11	230.58	0.000085	0.43	120.89	90.98	0.09
Reach 4	727	100-year	34.83	228.36	230.77	229.15	230.78	0.000071	0.42	139.09	92.85	0.09
Reach 4	727	Regional	26.96	228.36	230.30	229.05	230.31	0.000118	0.46	96.42	88.55	0.11
Reach 4	692.338	2-year	13.32	228.35	229.10	229.10	229.43	0.014334	2.70	5.73	43.85	1.03
Reach 4	692.338	5-year	18.84	228.35	229.27	229.27	229.68	0.013437	3.02	7.23	45.83	1.03
Reach 4	692.338	10-year	22.64	228.35	229.38	229.38	229.84	0.013181	3.23	8.14	46.58	1.04
Reach 4	692.338	25-year	27.44	228.35	229.90	229.50	230.18	0.004459	2.50	12.71	57.61	0.65
Reach 4	692.338	50-year	31.25	228.35	230.34	229.60	230.55	0.002435	2.19	16.52	67.14	0.50
Reach 4	692.338	100-year	34.83	228.35	230.77	229.69	230.77	0.000103	0.52	121.69	74.99	0.11
Reach 4	692.338	Regional	26.96	228.35	230.06	229.49	230.28	0.003078	2.22	14.08	60.20	0.55
Reach 4	670		Culvert									
Reach 4	638.888	2-year	9.37	227.81	228.31	228.31	228.53	0.015968	2.13	4.70	40.74	1.01
Reach 4	638.888	5-year	13.72	227.81	228.44	228.44	228.72	0.014631	2.41	6.08	42.24	1.01
Reach 4	638.888	10-year	20.14	227.81	228.60	228.60	228.96	0.013634	2.74	7.84	44.12	1.01
Reach 4	638.888	25-year	24.67	227.81	228.71	228.71	229.12	0.013168	2.94	8.95	45.58	1.02
Reach 4	638.888	50-year	28.51	227.81	228.79	228.79	229.25	0.012794	3.09	9.86	46.56	1.02
Reach 4	638.888	100-year	32.30	227.81	228.87	228.87	229.37	0.012409	3.22	10.72	47.52	1.02
Reach 4	638.888	Regional	33.53	227.81	228.89	228.89	229.41	0.012436	3.27	10.96	47.71	1.02
Reach 4	638.543	2-year	9.37	227.84	228.16		228.21	0.011529	1.38	11.10	48.00	0.80
Reach 4	638.543	5-year	13.72	227.84	228.23		228.29	0.010758	1.54	14.49	48.49	0.80
Reach 4	638.543	10-year	20.14	227.84	228.32		228.40	0.009867	1.70	19.00	49.14	0.80
Reach 4	638.543	25-year	24.67	227.84	228.38		228.47	0.009405	1.80	21.93	49.56	0.79
Reach 4	638.543	50-year	28.51	227.84	228.42		228.52	0.009080	1.88	24.30	49.90	0.79
Reach 4	638.543	100-year	32.30	227.84	228.47		228.57	0.008809	1.94	26.54	50.21	0.79
Reach 4	638.543	Regional	33.53	227.84	228.48		228.59	0.008715	1.96	27.27	50.32	0.79
Reach 4	618.4043	2-year	9.37	227.68	227.94		228.01	0.015675	1.40	9.11	36.88	0.90
Reach 4	618.4043	5-year	13.72	227.68	228.01		228.10	0.014622	1.61	11.84	38.40	0.91
Reach 4	618.4043	10-year	20.14	227.68	228.11		228.22	0.013602	1.84	15.49	40.35	0.92
Reach 4	618.4043	25-year	24.67	227.68	228.16		228.29	0.013140	1.98	17.86	41.34	0.92
Reach 4	618.4043	50-year	28.51	227.68	228.21		228.35	0.012978	2.08	19.67	41.69	0.93
Reach 4	618.4043	100-year	32.30	227.68	228.25		228.40	0.012787	2.18	21.41	42.03	0.93
Reach 4	618.4043	Regional	33.53	227.68	228.26		228.42	0.012825	2.21	21.91	42.12	0.94
Reach 4	589.1152	2-year	9.37	227.07	227.47	227.43	227.53	0.016049	1.46	9.75	41.42	0.92
Reach 4	589.1152	5-year	13.72	227.07	227.52	227.48	227.61	0.018649	1.76	11.77	41.97	1.02
Reach 4	589.1152	10-year	20.14	227.07	227.58	227.55	227.71	0.021972	2.15	14.18	42.63	1.14
Reach 4	589.1152	25-year	24.67	227.07	227.62	227.60	227.78	0.023561	2.37	15.74	43.05	1.20
Reach 4	589.1152	50-year	28.51	227.07	227.64	227.63	227.83	0.024487	2.53	17.02	43.40	1.24
Reach 4	589.1152	100-year	32.30	227.07	227.67	227.67	227.88	0.025284	2.68	18.22	43.71	1.27
Reach 4	589.1152	Regional	33.53	227.07	227.68	227.68	227.89	0.025348	2.72	18.64	43.82	1.28
Reach 4	540.9416	2-year	9.37	226.72	226.96		226.99	0.013177	1.21	11.86	51.34	0.82
Reach 4	540.9416	5-year	13.72	226.72	227.04		227.08	0.011058	1.35	15.88	51.69	0.79
Reach 4	540.9416	10-year	20.14	226.72	227.14		227.19	0.009136	1.50	21.33	52.18	0.75
Reach 4	540.9416	25-year	24.67	226.72	227.21		227.27	0.008334	1.59	24.86	52.48	0.74
Reach 4	540.9416	50-year	28.51	226.72	227.26		227.32	0.007853	1.65	27.68	52.73	0.73
Reach 4	540.9416	100-year	32.30	226.72	227.31		227.38	0.007478	1.71	30.34	52.96	0.72
Reach 4	540.9416	Regional	33.53	226.72	227.33		227.40	0.007386	1.73	31.17	53.03	0.72
Reach 4	487.0009	2-year	9.37	226.22	226.61		226.63	0.003781	0.93	15.37	41.02	0.48
Reach 4	487.0009	5-year	13.72	226.22	226.71		226.74	0.003819	1.09	19.55	42.63	0.50
Reach 4	487.0009	10-year	20.14	226.22	226.83		226.87	0.003902	1.28	24.87	44.68	0.52

HEC-RAS Plan: Feb2024_Proposed_6hr_Uncontrolled River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	487.0009	25-year	24.67	226.22	226.91		226.96	0.003918	1.39	28.36	45.99	0.54
Reach 4	487.0009	50-year	28.51	226.22	226.97		227.02	0.003969	1.47	31.04	46.69	0.55
Reach 4	487.0009	100-year	32.30	226.22	227.02		227.08	0.003964	1.55	33.67	47.23	0.55
Reach 4	487.0009	Regional	33.53	226.22	227.04		227.10	0.004018	1.57	34.35	47.37	0.56
Reach 4	459.8704	2-year	9.37	225.93	226.29	226.29	226.42	0.017240	1.62	6.32	27.08	0.97
Reach 4	459.8704	5-year	13.72	225.93	226.37	226.37	226.53	0.015747	1.82	8.53	29.64	0.97
Reach 4	459.8704	10-year	20.14	225.93	226.47	226.47	226.66	0.014311	2.04	11.63	32.92	0.96
Reach 4	459.8704	25-year	24.67	225.93	226.53	226.53	226.75	0.013967	2.18	13.61	34.75	0.97
Reach 4	459.8704	50-year	28.51	225.93	226.58	226.58	226.81	0.013183	2.26	15.46	36.52	0.95
Reach 4	459.8704	100-year	32.30	225.93	226.62	226.62	226.87	0.013168	2.36	16.96	37.70	0.96
Reach 4	459.8704	Regional	33.53	225.93	226.64	226.64	226.89	0.012527	2.36	17.77	38.37	0.95
Reach 4	428.8159	2-year	9.37	225.43	226.00		226.05	0.003910	1.12	11.41	34.78	0.51
Reach 4	428.8159	5-year	13.72	225.43	226.10		226.16	0.004142	1.30	15.11	39.88	0.54
Reach 4	428.8159	10-year	20.14	225.43	226.21		226.30	0.004389	1.50	19.99	44.59	0.57
Reach 4	428.8159	25-year	24.67	225.43	226.28		226.38	0.004618	1.64	22.95	46.84	0.59
Reach 4	428.8159	50-year	28.51	225.43	226.33		226.44	0.004756	1.73	25.39	48.61	0.61
Reach 4	428.8159	100-year	32.30	225.43	226.37		226.49	0.004932	1.83	27.58	50.15	0.63
Reach 4	428.8159	Regional	33.53	225.43	226.39		226.51	0.004945	1.85	28.36	50.74	0.63
Reach 4	394.871	2-year	9.37	225.26	225.69	225.69	225.82	0.012666	1.70	7.43	33.16	0.88
Reach 4	394.871	5-year	13.72	225.26	225.78	225.78	225.93	0.012439	1.92	10.30	37.41	0.90
Reach 4	394.871	10-year	20.14	225.26	225.87	225.87	226.06	0.012170	2.16	14.23	42.56	0.92
Reach 4	394.871	25-year	24.67	225.26	225.94	225.94	226.13	0.011570	2.26	17.10	45.62	0.91
Reach 4	394.871	50-year	28.51	225.26	225.98	225.98	226.19	0.011533	2.36	19.16	47.13	0.92
Reach 4	394.871	100-year	32.30	225.26	226.03	226.03	226.24	0.011303	2.44	21.24	48.29	0.92
Reach 4	394.871	Regional	33.53	225.26	226.04	226.04	226.26	0.011476	2.48	21.72	48.49	0.93
Reach 4	349.2437	2-year	9.37	224.34	224.90	224.90	225.06	0.013559	1.98	6.45	21.21	0.93
Reach 4	349.2437	5-year	13.72	224.34	225.00	225.00	225.20	0.013166	2.23	8.78	23.87	0.95
Reach 4	349.2437	10-year	20.14	224.34	225.13	225.13	225.37	0.012678	2.51	12.00	27.05	0.96
Reach 4	349.2437	25-year	24.67	224.34	225.20	225.20	225.47	0.012538	2.67	14.12	28.95	0.98
Reach 4	349.2437	50-year	28.51	224.34	225.26	225.26	225.55	0.012303	2.79	15.95	30.62	0.98
Reach 4	349.2437	100-year	32.30	224.34	225.33	225.33	225.62	0.011641	2.85	17.98	32.30	0.96
Reach 4	349.2437	Regional	33.53	224.34	225.35	225.35	225.64	0.011591	2.88	18.55	32.70	0.97
Reach 4	315.6893	2-year	9.37	223.71	224.29	224.29	224.49	0.014018	2.03	5.46	16.10	0.95
Reach 4	315.6893	5-year	13.72	223.71	224.42	224.42	224.65	0.012701	2.26	7.58	18.37	0.94
Reach 4	315.6893	10-year	20.14	223.71	224.56	224.56	224.85	0.011946	2.54	10.46	21.14	0.95
Reach 4	315.6893	25-year	24.67	223.71	224.64	224.64	224.96	0.012001	2.73	12.25	22.75	0.97
Reach 4	315.6893	50-year	28.51	223.71	224.73	224.73	225.06	0.011183	2.81	14.17	24.70	0.95
Reach 4	315.6893	100-year	32.30	223.71	224.80	224.80	225.14	0.010639	2.88	15.99	26.27	0.94
Reach 4	315.6893	Regional	33.53	223.71	224.82	224.82	225.17	0.010574	2.91	16.52	26.66	0.94
Reach 4	275.2624	2-year	9.37	223.35	224.11		224.15	0.001603	0.91	13.51	28.48	0.34
Reach 4	275.2624	5-year	13.72	223.35	224.27		224.31	0.001617	1.04	18.19	32.51	0.36
Reach 4	275.2624	10-year	20.14	223.35	224.45		224.51	0.001657	1.19	24.56	37.93	0.37
Reach 4	275.2624	25-year	24.67	223.35	224.56		224.62	0.001692	1.29	28.79	41.42	0.38
Reach 4	275.2624	50-year	28.51	223.35	224.64		224.71	0.001716	1.36	32.20	43.65	0.39
Reach 4	275.2624	100-year	32.30	223.35	224.71		224.78	0.001742	1.42	35.43	45.64	0.40
Reach 4	275.2624	Regional	33.53	223.35	224.73		224.81	0.001757	1.44	36.39	46.21	0.40
Reach 4	229.0522	2-year	9.37	223.05	223.78	223.78	223.98	0.011872	2.26	6.33	17.75	0.92
Reach 4	229.0522	5-year	13.72	223.05	223.92	223.92	224.14	0.010781	2.47	9.09	21.37	0.90
Reach 4	229.0522	10-year	20.14	223.05	224.07	224.07	224.33	0.010600	2.77	12.68	25.62	0.92
Reach 4	229.0522	25-year	24.67	223.05	224.16	224.16	224.44	0.010665	2.95	15.00	27.92	0.94
Reach 4	229.0522	50-year	28.51	223.05	224.23	224.23	224.53	0.010596	3.07	16.98	29.78	0.95
Reach 4	229.0522	100-year	32.30	223.05	224.29	224.29	224.60	0.010573	3.18	18.85	31.37	0.96
Reach 4	229.0522	Regional	33.53	223.05	224.31	224.31	224.63	0.010385	3.20	19.59	31.97	0.95
Reach 4	173.0601	2-year	9.37	222.67	223.32		223.38	0.003779	1.21	11.05	30.94	0.51
Reach 4	173.0601	5-year	13.72	222.67	223.45		223.52	0.003544	1.34	15.36	35.39	0.51
Reach 4	173.0601	10-year	20.14	222.67	223.61		223.69	0.003418	1.50	21.25	41.35	0.52
Reach 4	173.0601	25-year	24.67	222.67	223.70		223.79	0.003354	1.59	25.27	45.11	0.52
Reach 4	173.0601	50-year	28.51	222.67	223.77		223.87	0.003311	1.66	28.60	48.04	0.53
Reach 4	173.0601	100-year	32.30	222.67	223.84		223.94	0.003262	1.72	31.85	50.63	0.53
Reach 4	173.0601	Regional	33.53	222.67	223.86		223.96	0.003224	1.73	32.90	50.93	0.53
Reach 4	153.1	2-year	9.37	222.33	223.07	223.00	223.19	0.009056	2.11	8.59	22.11	0.81
Reach 4	153.1	5-year	13.72	222.33	223.19	223.11	223.33	0.009314	2.39	11.48	25.31	0.85
Reach 4	153.1	10-year	20.14	222.33	223.35	223.25	223.51	0.008734	2.61	15.88	29.23	0.85
Reach 4	153.1	25-year	24.67	222.33	223.43	223.33	223.61	0.009401	2.84	18.07	31.00	0.89
Reach 4	153.1	50-year	28.51	222.33	223.49	223.39	223.68	0.009728	3.00	19.95	32.45	0.91
Reach 4	153.1	100-year	32.30	222.33	223.55	223.44	223.76	0.009542	3.09	22.17	34.14	0.91
Reach 4	153.1	Regional	33.53	222.33	223.57	223.46	223.78	0.009504	3.12	22.86	34.68	0.91

HEC-RAS Plan: Feb2024_Proposed_6hr_Uncontrolled River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	137.87	2-year	9.37	221.96	222.57	222.57	222.76	0.014343	1.99	5.34	16.07	0.95
Reach 4	137.87	5-year	13.72	221.96	222.69	222.69	222.92	0.012775	2.21	7.46	18.63	0.94
Reach 4	137.87	10-year	20.14	221.96	222.83	222.83	223.12	0.012250	2.50	10.31	22.54	0.95
Reach 4	137.87	25-year	24.67	221.96	222.95	222.95	223.23	0.010307	2.54	13.19	26.65	0.89
Reach 4	137.87	50-year	28.51	221.96	223.02	223.02	223.31	0.009631	2.61	15.28	28.25	0.88
Reach 4	137.87	100-year	32.30	221.96	223.08	223.08	223.39	0.009679	2.72	16.88	29.22	0.89
Reach 4	137.87	Regional	33.53	221.96	223.10	223.10	223.41	0.009667	2.75	17.40	29.53	0.89
Reach 4	99.65	2-year	9.37	221.71	222.19	222.06	222.24	0.004611	1.04	9.52	29.54	0.53
Reach 4	99.65	5-year	13.72	221.71	222.27	222.14	222.35	0.005022	1.24	12.14	32.50	0.57
Reach 4	99.65	10-year	20.14	221.71	222.38	222.23	222.48	0.005287	1.45	15.81	36.14	0.61
Reach 4	99.65	25-year	24.67	221.71	222.44	222.30	222.56	0.005508	1.59	18.11	37.96	0.63
Reach 4	99.65	50-year	28.51	221.71	222.49	222.35	222.63	0.005681	1.69	19.95	39.35	0.65
Reach 4	99.65	100-year	32.30	221.71	222.54	222.39	222.68	0.005823	1.78	21.72	40.64	0.66
Reach 4	99.65	Regional	33.53	221.71	222.55	222.41	222.70	0.005869	1.81	22.27	41.04	0.67
Reach 4	11.71822	2-year	9.37	221.55	221.74	221.74	221.85	0.049407	1.83	6.51	30.73	1.49
Reach 4	11.71822	5-year	13.72	221.55	221.81	221.81	221.94	0.044212	2.06	8.58	32.20	1.47
Reach 4	11.71822	10-year	20.14	221.55	221.88	221.88	222.06	0.042282	2.41	11.08	33.83	1.50
Reach 4	11.71822	25-year	24.67	221.55	221.94	221.94	222.14	0.039028	2.61	12.91	34.93	1.49
Reach 4	11.71822	50-year	28.51	221.55	221.98	221.98	222.20	0.036753	2.76	14.42	35.81	1.47
Reach 4	11.71822	100-year	32.30	221.55	222.02	222.02	222.26	0.034967	2.89	15.87	36.64	1.46
Reach 4	11.71822	Regional	33.53	221.55	222.03	222.03	222.28	0.034396	2.93	16.35	36.91	1.46

HEC-RAS Plan: Feb2024_Proposed_12hr_Uncontrolled River: Campbell's TribA Reach: Reach 4

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	790	2-year	8.76	228.79	229.61	229.61	229.98	0.013397	2.73	3.38	53.76	1.00
Reach 4	790	5-year	11.82	228.79	229.77	229.77	230.22	0.012831	3.03	4.11	55.07	1.01
Reach 4	790	10-year	13.98	228.79	229.88	229.88	230.38	0.012306	3.20	4.61	55.72	1.01
Reach 4	790	25-year	16.67	228.79	230.00	230.00	230.57	0.011877	3.40	5.18	56.11	1.01
Reach 4	790	50-year	18.63	228.79	230.09	230.09	230.70	0.011593	3.52	5.58	56.32	1.01
Reach 4	790	100-year	20.60	228.79	230.18	230.18	230.82	0.011319	3.64	5.97	56.52	1.01
Reach 4	790	Regional	26.96	228.79	230.43	230.43	231.20	0.010711	3.98	7.14	57.14	1.02
Reach 4	763	2-year	8.76	228.45	229.28		229.29	0.000683	0.60	22.60	40.28	0.23
Reach 4	763	5-year	11.82	228.45	229.44		229.45	0.000563	0.62	29.21	40.94	0.21
Reach 4	763	10-year	13.98	228.45	229.55		229.56	0.000511	0.64	33.55	41.22	0.21
Reach 4	763	25-year	16.67	228.45	229.67		229.68	0.000463	0.66	38.75	41.55	0.20
Reach 4	763	50-year	18.63	228.45	229.76		229.77	0.000437	0.67	42.37	41.82	0.20
Reach 4	763	100-year	20.60	228.45	229.84		229.86	0.000415	0.69	45.92	42.08	0.19
Reach 4	763	Regional	26.96	228.45	230.31		230.32	0.000240	0.64	65.98	46.29	0.15
Reach 4	727	2-year	8.76	228.36	229.25	228.76	229.27	0.000518	0.54	17.29	26.11	0.20
Reach 4	727	5-year	11.82	228.36	229.41	228.82	229.43	0.000484	0.59	21.81	29.48	0.20
Reach 4	727	10-year	13.98	228.36	229.52	228.85	229.54	0.000462	0.62	24.99	31.00	0.20
Reach 4	727	25-year	16.67	228.36	229.65	228.90	229.67	0.000436	0.65	29.00	32.86	0.19
Reach 4	727	50-year	18.63	228.36	229.73	228.93	229.75	0.000420	0.67	31.91	34.19	0.19
Reach 4	727	100-year	20.60	228.36	229.82	228.96	229.84	0.000405	0.69	34.86	35.48	0.19
Reach 4	727	Regional	26.96	228.36	230.30	229.05	230.31	0.000118	0.46	96.42	88.55	0.11
Reach 4	692.338	2-year	8.76	228.35	228.94	228.94	229.19	0.015179	2.34	4.34	42.17	1.01
Reach 4	692.338	5-year	11.82	228.35	229.05	229.05	229.35	0.014680	2.60	5.28	43.37	1.03
Reach 4	692.338	10-year	13.98	228.35	229.12	229.12	229.46	0.014082	2.73	5.93	44.07	1.03
Reach 4	692.338	25-year	16.67	228.35	229.21	229.21	229.58	0.013823	2.91	6.65	45.07	1.03
Reach 4	692.338	50-year	18.63	228.35	229.26	229.26	229.67	0.013519	3.02	7.17	45.78	1.04
Reach 4	692.338	100-year	20.60	228.35	229.32	229.32	229.75	0.013330	3.12	7.65	46.17	1.04
Reach 4	692.338	Regional	26.96	228.35	230.06	229.49	230.28	0.003078	2.22	14.08	60.20	0.55
Reach 4	670		Culvert									
Reach 4	638.888	2-year	7.47	227.81	228.25	228.25	228.44	0.016462	1.96	4.05	39.43	1.00
Reach 4	638.888	5-year	10.32	227.81	228.34	228.34	228.57	0.015745	2.20	5.00	41.11	1.01
Reach 4	638.888	10-year	14.20	227.81	228.45	228.45	228.74	0.014599	2.44	6.21	42.38	1.01
Reach 4	638.888	25-year	16.87	227.81	228.52	228.52	228.84	0.014175	2.59	6.96	43.11	1.01
Reach 4	638.888	50-year	18.88	227.81	228.57	228.57	228.92	0.013942	2.69	7.48	43.63	1.02
Reach 4	638.888	100-year	21.00	227.81	228.62	228.62	229.00	0.013722	2.79	8.02	44.41	1.02
Reach 4	638.888	Regional	33.53	227.81	228.89	228.89	229.41	0.012436	3.27	10.96	47.71	1.02
Reach 4	638.543	2-year	7.47	227.84	228.12		228.17	0.011774	1.29	9.52	47.76	0.80
Reach 4	638.543	5-year	10.32	227.84	228.17		228.23	0.011368	1.42	11.87	48.11	0.80
Reach 4	638.543	10-year	14.20	227.84	228.23		228.30	0.010690	1.55	14.84	48.54	0.80
Reach 4	638.543	25-year	16.87	227.84	228.27		228.35	0.010295	1.62	16.76	48.82	0.80
Reach 4	638.543	50-year	18.88	227.84	228.30		228.38	0.010048	1.68	18.13	49.02	0.80
Reach 4	638.543	100-year	21.00	227.84	228.33		228.41	0.009759	1.72	19.58	49.23	0.80
Reach 4	638.543	Regional	33.53	227.84	228.48		228.59	0.008715	1.96	27.27	50.32	0.79
Reach 4	618.4043	2-year	7.47	227.68	227.90		227.96	0.016716	1.30	7.75	36.10	0.91
Reach 4	618.4043	5-year	10.32	227.68	227.96		228.03	0.015342	1.45	9.74	37.24	0.90
Reach 4	618.4043	10-year	14.20	227.68	228.02		228.11	0.014587	1.63	12.11	38.55	0.91
Reach 4	618.4043	25-year	16.87	227.68	228.06		228.16	0.014035	1.73	13.68	39.40	0.91
Reach 4	618.4043	50-year	18.88	227.68	228.09		228.20	0.013662	1.80	14.83	40.01	0.91
Reach 4	618.4043	100-year	21.00	227.68	228.12		228.23	0.013413	1.87	16.00	40.85	0.92
Reach 4	618.4043	Regional	33.53	227.68	228.26		228.42	0.012825	2.21	21.91	42.12	0.94
Reach 4	589.1152	2-year	7.47	227.07	227.45	227.41	227.50	0.014491	1.31	8.73	41.18	0.86
Reach 4	589.1152	5-year	10.32	227.07	227.48	227.45	227.55	0.016838	1.53	10.20	41.53	0.95
Reach 4	589.1152	10-year	14.20	227.07	227.53	227.49	227.62	0.018796	1.79	11.99	42.03	1.03
Reach 4	589.1152	25-year	16.87	227.07	227.55	227.52	227.66	0.020454	1.96	12.99	42.31	1.08
Reach 4	589.1152	50-year	18.88	227.07	227.57	227.54	227.69	0.021396	2.08	13.74	42.51	1.12
Reach 4	589.1152	100-year	21.00	227.07	227.59	227.56	227.72	0.022325	2.19	14.49	42.71	1.15
Reach 4	589.1152	Regional	33.53	227.07	227.68	227.68	227.89	0.025348	2.72	18.64	43.82	1.28
Reach 4	540.9416	2-year	7.47	226.72	226.92		226.95	0.014802	1.13	9.92	51.16	0.84
Reach 4	540.9416	5-year	10.32	226.72	226.98		227.01	0.012560	1.24	12.79	51.42	0.81
Reach 4	540.9416	10-year	14.20	226.72	227.04		227.09	0.010865	1.36	16.31	51.73	0.78
Reach 4	540.9416	25-year	16.87	226.72	227.09		227.14	0.009939	1.43	18.64	51.94	0.77
Reach 4	540.9416	50-year	18.88	226.72	227.12		227.17	0.009428	1.47	20.30	52.08	0.76
Reach 4	540.9416	100-year	21.00	226.72	227.15		227.21	0.008958	1.52	22.02	52.24	0.75
Reach 4	540.9416	Regional	33.53	226.72	227.33		227.40	0.007386	1.73	31.17	53.03	0.72
Reach 4	487.0009	2-year	7.47	226.22	226.56		226.58	0.003735	0.84	13.35	39.81	0.46
Reach 4	487.0009	5-year	10.32	226.22	226.63		226.66	0.003800	0.97	16.32	41.36	0.48
Reach 4	487.0009	10-year	14.20	226.22	226.72		226.75	0.003824	1.10	19.98	42.79	0.50

HEC-RAS Plan: Feb2024_Proposed_12hr_Uncontrolled River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	487.0009	25-year	16.87	226.22	226.77		226.81	0.003885	1.19	22.20	43.66	0.51
Reach 4	487.0009	50-year	18.88	226.22	226.81		226.85	0.003872	1.24	23.91	44.32	0.52
Reach 4	487.0009	100-year	21.00	226.22	226.85		226.89	0.003909	1.30	25.55	44.94	0.53
Reach 4	487.0009	Regional	33.53	226.22	227.04		227.10	0.004018	1.57	34.35	47.37	0.56
Reach 4	459.8704	2-year	7.47	225.93	226.25	226.25	226.37	0.018101	1.51	5.32	25.82	0.97
Reach 4	459.8704	5-year	10.32	225.93	226.31	226.31	226.45	0.016834	1.67	6.82	27.67	0.97
Reach 4	459.8704	10-year	14.20	225.93	226.38	226.38	226.54	0.015649	1.84	8.77	29.89	0.97
Reach 4	459.8704	25-year	16.87	225.93	226.42	226.42	226.60	0.014716	1.93	10.13	31.36	0.96
Reach 4	459.8704	50-year	18.88	225.93	226.45	226.45	226.64	0.014793	2.01	10.96	32.09	0.97
Reach 4	459.8704	100-year	21.00	225.93	226.48	226.48	226.68	0.014212	2.07	12.02	33.26	0.96
Reach 4	459.8704	Regional	33.53	225.93	226.64	226.64	226.89	0.012527	2.36	17.77	38.37	0.95
Reach 4	428.8159	2-year	7.47	225.43	225.95		226.00	0.003447	0.99	10.01	32.12	0.47
Reach 4	428.8159	5-year	10.32	225.43	226.02		226.08	0.003959	1.16	12.26	36.06	0.51
Reach 4	428.8159	10-year	14.20	225.43	226.11		226.18	0.004168	1.32	15.49	40.37	0.54
Reach 4	428.8159	25-year	16.87	225.43	226.16		226.23	0.004277	1.41	17.59	42.67	0.56
Reach 4	428.8159	50-year	18.88	225.43	226.19		226.28	0.004339	1.47	19.09	43.88	0.56
Reach 4	428.8159	100-year	21.00	225.43	226.22		226.31	0.004426	1.53	20.59	45.05	0.57
Reach 4	428.8159	Regional	33.53	225.43	226.39		226.51	0.004945	1.85	28.36	50.74	0.63
Reach 4	394.871	2-year	7.47	225.26	225.62	225.62	225.76	0.018040	1.76	5.24	24.35	1.01
Reach 4	394.871	5-year	10.32	225.26	225.71	225.71	225.85	0.012651	1.76	8.07	34.15	0.88
Reach 4	394.871	10-year	14.20	225.26	225.78	225.78	225.94	0.012402	1.94	10.61	37.84	0.90
Reach 4	394.871	25-year	16.87	225.26	225.83	225.83	226.00	0.012241	2.04	12.29	40.09	0.90
Reach 4	394.871	50-year	18.88	225.26	225.86	225.86	226.03	0.012255	2.12	13.46	41.60	0.91
Reach 4	394.871	100-year	21.00	225.26	225.89	225.89	226.07	0.012075	2.18	14.77	43.21	0.91
Reach 4	394.871	Regional	33.53	225.26	226.04	226.04	226.26	0.011476	2.48	21.72	48.49	0.93
Reach 4	349.2437	2-year	7.47	224.34	224.84	224.84	224.99	0.014161	1.86	5.32	19.74	0.93
Reach 4	349.2437	5-year	10.32	224.34	224.92	224.92	225.10	0.013602	2.05	6.95	21.80	0.94
Reach 4	349.2437	10-year	14.20	224.34	225.01	225.01	225.22	0.013068	2.25	9.04	24.15	0.95
Reach 4	349.2437	25-year	16.87	224.34	225.07	225.07	225.29	0.012855	2.37	10.40	25.53	0.96
Reach 4	349.2437	50-year	18.88	224.34	225.10	225.10	225.34	0.012762	2.46	11.38	26.47	0.96
Reach 4	349.2437	100-year	21.00	224.34	225.14	225.14	225.39	0.012615	2.54	12.42	27.44	0.97
Reach 4	349.2437	Regional	33.53	224.34	225.35	225.35	225.64	0.011591	2.88	18.55	32.70	0.97
Reach 4	315.6893	2-year	7.47	223.71	224.23	224.23	224.41	0.014844	1.90	4.51	14.87	0.95
Reach 4	315.6893	5-year	10.32	223.71	224.32	224.32	224.53	0.013585	2.08	5.95	16.69	0.94
Reach 4	315.6893	10-year	14.20	223.71	224.43	224.43	224.67	0.012583	2.28	7.81	18.59	0.94
Reach 4	315.6893	25-year	16.87	223.71	224.49	224.49	224.75	0.012455	2.42	8.96	19.68	0.95
Reach 4	315.6893	50-year	18.88	223.71	224.53	224.53	224.81	0.012140	2.49	9.88	20.59	0.95
Reach 4	315.6893	100-year	21.00	223.71	224.58	224.58	224.87	0.011710	2.56	10.89	21.54	0.94
Reach 4	315.6893	Regional	33.53	223.71	224.82	224.82	225.17	0.010574	2.91	16.52	26.66	0.94
Reach 4	275.2624	2-year	7.47	223.35	224.03		224.07	0.001603	0.84	11.32	26.38	0.34
Reach 4	275.2624	5-year	10.32	223.35	224.15		224.19	0.001599	0.94	14.59	29.46	0.35
Reach 4	275.2624	10-year	14.20	223.35	224.28		224.33	0.001627	1.05	18.65	32.88	0.36
Reach 4	275.2624	25-year	16.87	223.35	224.37		224.42	0.001601	1.11	21.54	35.22	0.36
Reach 4	275.2624	50-year	18.88	223.35	224.42		224.47	0.001639	1.16	23.39	36.90	0.37
Reach 4	275.2624	100-year	21.00	223.35	224.47		224.53	0.001665	1.21	25.37	38.62	0.38
Reach 4	275.2624	Regional	33.53	223.35	224.73		224.81	0.001757	1.44	36.39	46.21	0.40
Reach 4	229.0522	2-year	7.47	223.05	223.71	223.71	223.89	0.012319	2.13	5.14	15.94	0.91
Reach 4	229.0522	5-year	10.32	223.05	223.81	223.81	224.02	0.011723	2.32	6.90	18.57	0.92
Reach 4	229.0522	10-year	14.20	223.05	223.93	223.93	224.16	0.010728	2.49	9.37	21.66	0.90
Reach 4	229.0522	25-year	16.87	223.05	223.97	223.97	224.24	0.012061	2.74	10.30	22.59	0.97
Reach 4	229.0522	50-year	18.88	223.05	224.04	224.04	224.30	0.010814	2.73	11.91	24.80	0.93
Reach 4	229.0522	100-year	21.00	223.05	224.09	224.09	224.36	0.010585	2.80	13.14	26.08	0.93
Reach 4	229.0522	Regional	33.53	223.05	224.31	224.31	224.63	0.010385	3.20	19.59	31.97	0.95
Reach 4	173.0601	2-year	7.47	222.67	223.26		223.31	0.003953	1.13	9.03	28.08	0.51
Reach 4	173.0601	5-year	10.32	222.67	223.36		223.42	0.003685	1.24	12.05	32.01	0.51
Reach 4	173.0601	10-year	14.20	222.67	223.47		223.54	0.003531	1.35	15.81	35.85	0.51
Reach 4	173.0601	25-year	16.87	222.67	223.53		223.61	0.003472	1.42	18.28	38.30	0.52
Reach 4	173.0601	50-year	18.88	222.67	223.58		223.66	0.003430	1.47	20.11	40.01	0.52
Reach 4	173.0601	100-year	21.00	222.67	223.63		223.71	0.003404	1.52	22.03	42.17	0.52
Reach 4	173.0601	Regional	33.53	222.67	223.86		223.96	0.003224	1.73	32.90	50.93	0.53
Reach 4	153.1	2-year	7.47	222.33	223.01	222.94	223.11	0.008780	1.95	7.27	20.39	0.79
Reach 4	153.1	5-year	10.32	222.33	223.10	223.02	223.22	0.009140	2.18	9.25	22.92	0.82
Reach 4	153.1	10-year	14.20	222.33	223.20	223.12	223.35	0.009326	2.41	11.79	25.60	0.85
Reach 4	153.1	25-year	16.87	222.33	223.28	223.18	223.43	0.008951	2.50	13.70	27.36	0.85
Reach 4	153.1	50-year	18.88	222.33	223.32	223.22	223.48	0.008977	2.59	14.94	28.44	0.85
Reach 4	153.1	100-year	21.00	222.33	223.37	223.27	223.53	0.008586	2.63	16.51	29.75	0.84
Reach 4	153.1	Regional	33.53	222.33	223.57	223.46	223.78	0.009504	3.12	22.86	34.68	0.91

HEC-RAS Plan: Feb2024_Proposed_12hr_Uncontrolled River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	137.87	2-year	7.47	221.96	222.51	222.51	222.68	0.015348	1.87	4.40	14.80	0.96
Reach 4	137.87	5-year	10.32	221.96	222.60	222.60	222.80	0.013961	2.05	5.80	16.66	0.95
Reach 4	137.87	10-year	14.20	221.96	222.70	222.70	222.94	0.012655	2.23	7.69	18.89	0.93
Reach 4	137.87	25-year	16.87	221.96	222.76	222.76	223.02	0.012732	2.38	8.79	20.25	0.95
Reach 4	137.87	50-year	18.88	221.96	222.81	222.81	223.08	0.012147	2.44	9.81	21.78	0.94
Reach 4	137.87	100-year	21.00	221.96	222.85	222.85	223.14	0.012320	2.55	10.66	23.11	0.96
Reach 4	137.87	Regional	33.53	221.96	223.10	223.10	223.41	0.009667	2.75	17.40	29.53	0.89
Reach 4	99.65	2-year	7.47	221.71	222.15	222.02	222.19	0.004425	0.94	8.24	27.95	0.51
Reach 4	99.65	5-year	10.32	221.71	222.21	222.08	222.27	0.004707	1.09	10.12	30.25	0.54
Reach 4	99.65	10-year	14.20	221.71	222.28	222.14	222.36	0.005065	1.26	12.41	32.78	0.58
Reach 4	99.65	25-year	16.87	221.71	222.33	222.19	222.42	0.005205	1.35	13.94	34.38	0.59
Reach 4	99.65	50-year	18.88	221.71	222.36	222.22	222.46	0.005278	1.42	15.08	35.51	0.60
Reach 4	99.65	100-year	21.00	221.71	222.39	222.25	222.50	0.005332	1.48	16.26	36.50	0.61
Reach 4	99.65	Regional	33.53	221.71	222.55	222.41	222.70	0.005869	1.81	22.27	41.04	0.67
Reach 4	11.71822	2-year	7.47	221.55	221.71	221.71	221.81	0.052878	1.70	5.53	30.02	1.50
Reach 4	11.71822	5-year	10.32	221.55	221.76	221.76	221.87	0.048255	1.89	6.97	31.07	1.48
Reach 4	11.71822	10-year	14.20	221.55	221.82	221.82	221.95	0.043614	2.08	8.81	32.36	1.46
Reach 4	11.71822	25-year	16.87	221.55	221.85	221.85	222.00	0.043107	2.20	9.87	33.08	1.48
Reach 4	11.71822	50-year	18.88	221.55	221.87	221.87	222.04	0.042710	2.33	10.61	33.54	1.49
Reach 4	11.71822	100-year	21.00	221.55	221.89	221.89	222.08	0.041560	2.45	11.44	34.04	1.50
Reach 4	11.71822	Regional	33.53	221.55	222.03	222.03	222.28	0.034396	2.93	16.35	36.91	1.46

HEC-RAS Plan: Feb2024_Proposed_100-YR_UC_w.DryPond River: Campbell's TribA Reach: Reach 4

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	790	6-HR 100-year	15.07	228.79	229.93	229.93	230.46	0.012148	3.29	4.84	55.93	1.01
Reach 4	790	12-HR 100-Year	12.65	228.79	229.82	229.82	230.28	0.012522	3.09	4.31	55.34	1.01
Reach 4	763	6-HR 100-year	15.07	228.45	229.60		229.61	0.000489	0.65	35.72	41.35	0.20
Reach 4	763	12-HR 100-Year	12.65	228.45	229.48		229.49	0.000541	0.63	30.90	41.05	0.21
Reach 4	727	6-HR 100-year	15.07	228.36	229.57	228.87	229.59	0.000450	0.63	26.65	31.75	0.20
Reach 4	727	12-HR 100-Year	12.65	228.36	229.46	228.83	229.47	0.000475	0.60	23.03	30.07	0.20
Reach 4	692.338	6-HR 100-year	15.07	228.35	229.15	229.15	229.51	0.014308	2.83	6.19	44.34	1.04
Reach 4	692.338	12-HR 100-Year	12.65	228.35	229.08	229.08	229.39	0.014438	2.65	5.54	43.65	1.03
Reach 4	670		Culvert									
Reach 4	638.888	6-HR 100-year	15.76	227.81	228.49	228.49	228.80	0.014380	2.53	6.65	42.81	1.01
Reach 4	638.888	12-HR 100-Year	13.29	227.81	228.42	228.42	228.70	0.014971	2.39	5.92	42.08	1.02
Reach 4	638.543	6-HR 100-year	15.76	227.84	228.26		228.33	0.010480	1.60	15.96	48.70	0.80
Reach 4	638.543	12-HR 100-Year	13.29	227.84	228.22		228.29	0.010790	1.52	14.19	48.45	0.80
Reach 4	618.4043	6-HR 100-year	15.76	227.68	228.05		228.14	0.014105	1.69	13.08	39.08	0.91
Reach 4	618.4043	12-HR 100-Year	13.29	227.68	228.01		228.09	0.014726	1.59	11.58	38.26	0.91
Reach 4	589.1152	6-HR 100-year	15.76	227.07	227.54	227.51	227.64	0.019905	1.90	12.57	42.19	1.06
Reach 4	589.1152	12-HR 100-Year	13.29	227.07	227.52	227.48	227.60	0.018386	1.73	11.59	41.92	1.01
Reach 4	540.9416	6-HR 100-year	15.76	226.72	227.07		227.12	0.010296	1.40	17.68	51.85	0.77
Reach 4	540.9416	12-HR 100-Year	13.29	226.72	227.03		227.07	0.011245	1.34	15.49	51.66	0.79
Reach 4	487.0009	6-HR 100-year	15.76	226.22	226.75		226.79	0.003847	1.15	21.32	43.31	0.51
Reach 4	487.0009	12-HR 100-Year	13.29	226.22	226.70		226.73	0.003811	1.07	19.17	42.48	0.50
Reach 4	459.8704	6-HR 100-year	15.76	225.93	226.40	226.40	226.57	0.015241	1.90	9.53	30.72	0.96
Reach 4	459.8704	12-HR 100-Year	13.29	225.93	226.36	226.36	226.52	0.015872	1.80	8.32	29.40	0.97
Reach 4	428.8159	6-HR 100-year	15.76	225.43	226.14		226.21	0.004223	1.37	16.75	41.93	0.55
Reach 4	428.8159	12-HR 100-Year	13.29	225.43	226.09		226.15	0.004125	1.28	14.76	39.43	0.54
Reach 4	394.871	6-HR 100-year	15.76	225.26	225.81	225.81	225.97	0.012333	2.00	11.59	39.17	0.90
Reach 4	394.871	12-HR 100-Year	13.29	225.26	225.77	225.77	225.92	0.012432	1.90	10.04	37.04	0.89
Reach 4	349.2437	6-HR 100-year	15.76	224.34	225.04	225.04	225.26	0.012815	2.32	9.88	25.01	0.95
Reach 4	349.2437	12-HR 100-Year	13.29	224.34	224.99	224.99	225.19	0.013254	2.21	8.54	23.62	0.95
Reach 4	315.6893	6-HR 100-year	15.76	223.71	224.46	224.46	224.72	0.012583	2.37	8.47	19.21	0.95
Reach 4	315.6893	12-HR 100-Year	13.29	223.71	224.41	224.41	224.64	0.012830	2.24	7.37	18.16	0.94
Reach 4	275.2624	6-HR 100-year	15.76	223.35	224.33		224.38	0.001619	1.09	20.30	34.17	0.36
Reach 4	275.2624	12-HR 100-Year	13.29	223.35	224.25		224.30	0.001612	1.03	17.77	32.17	0.36
Reach 4	229.0522	6-HR 100-year	15.76	223.05	223.96	223.96	224.21	0.011268	2.62	10.01	22.31	0.93
Reach 4	229.0522	12-HR 100-Year	13.29	223.05	223.90	223.90	224.13	0.010919	2.46	8.81	21.05	0.91
Reach 4	173.0601	6-HR 100-year	15.76	222.67	223.51		223.58	0.003496	1.40	17.26	37.30	0.51
Reach 4	173.0601	12-HR 100-Year	13.29	222.67	223.44		223.51	0.003560	1.33	14.95	34.99	0.51
Reach 4	153.1	6-HR 100-year	15.76	222.33	223.25	223.16	223.39	0.009128	2.47	12.89	26.63	0.85
Reach 4	153.1	12-HR 100-Year	13.29	222.33	223.18	223.10	223.32	0.009259	2.36	11.23	25.06	0.84
Reach 4	137.87	6-HR 100-year	15.76	221.96	222.74	222.74	222.99	0.012680	2.32	8.34	19.59	0.94
Reach 4	137.87	12-HR 100-Year	13.29	221.96	222.68	222.68	222.91	0.012963	2.19	7.24	18.38	0.94
Reach 4	99.65	6-HR 100-year	15.76	221.71	222.31	222.17	222.39	0.005169	1.32	13.30	33.71	0.59
Reach 4	99.65	12-HR 100-Year	13.29	221.71	222.27	222.13	222.34	0.004998	1.22	11.89	32.22	0.57
Reach 4	11.71822	6-HR 100-year	15.76	221.55	221.84	221.84	221.98	0.042778	2.15	9.48	32.81	1.46
Reach 4	11.71822	12-HR 100-Year	13.29	221.55	221.80	221.80	221.94	0.044257	2.03	8.41	32.08	1.46

HEC-RAS Plan: Feb2024_Proposed_Uncontrolled_6hr_Relief River: Campbell's TribA Reach: Reach 4

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	790	2-year	13.32	228.79	229.85	229.85	230.33	0.012440	3.15	4.46	55.53	1.01
Reach 4	790	5-year	18.84	228.79	230.10	230.10	230.71	0.011599	3.54	5.62	56.34	1.02
Reach 4	790	10-year	22.64	228.79	230.26	230.26	230.95	0.011199	3.77	6.34	56.72	1.02
Reach 4	790	25-year	27.44	228.79	230.45	230.45	231.23	0.010743	4.02	7.21	57.17	1.02
Reach 4	790	50-year	31.25	228.79	230.59	230.59	231.44	0.010407	4.19	7.87	57.82	1.02
Reach 4	790	100-year	34.83	228.79	230.72	230.72	231.63	0.010150	4.34	8.47	58.80	1.02
Reach 4	790	Regional	26.96	228.79	230.43	230.43	231.20	0.010711	3.98	7.14	57.14	1.02
Reach 4	763	2-year	13.32	228.45	229.36		229.38	0.001045	0.80	25.87	40.73	0.28
Reach 4	763	5-year	18.84	228.45	229.60		229.62	0.000756	0.81	35.83	41.36	0.25
Reach 4	763	10-year	22.64	228.45	229.78		229.80	0.000610	0.81	43.12	41.87	0.23
Reach 4	763	25-year	27.44	228.45	230.01		230.03	0.000465	0.79	53.14	42.60	0.21
Reach 4	763	50-year	31.25	228.45	230.31		230.32	0.000322	0.74	66.04	46.32	0.18
Reach 4	763	100-year	34.83	228.45	230.63		230.65	0.000220	0.69	82.29	52.76	0.15
Reach 4	763	Regional	26.96	228.45	230.06		230.08	0.000399	0.75	55.22	42.78	0.19
Reach 4	727	2-year	13.32	228.36	229.31	228.84	229.34	0.000922	0.75	18.89	27.33	0.27
Reach 4	727	5-year	18.84	228.36	229.56	228.93	229.59	0.000735	0.80	26.22	31.56	0.25
Reach 4	727	10-year	22.64	228.36	229.74	228.99	229.77	0.000610	0.81	32.13	34.28	0.23
Reach 4	727	25-year	27.44	228.36	230.00	229.06	230.02	0.000275	0.62	70.38	84.90	0.16
Reach 4	727	50-year	31.25	228.36	230.30	229.11	230.31	0.000159	0.53	96.43	88.55	0.13
Reach 4	727	100-year	34.83	228.36	230.63	229.15	230.64	0.000094	0.46	126.13	91.49	0.10
Reach 4	727	Regional	26.96	228.36	230.05	229.05	230.07	0.000229	0.58	74.72	85.90	0.15
Reach 4	692.338	2-year	13.32	228.35	228.96	228.96	229.23	0.014740	2.39	6.20	42.42	1.01
Reach 4	692.338	5-year	18.84	228.35	229.33	229.10	229.52	0.005302	2.00	10.50	46.23	0.66
Reach 4	692.338	10-year	22.64	228.35	229.53	229.19	229.71	0.004021	1.98	12.77	49.39	0.59
Reach 4	692.338	25-year	27.44	228.35	229.81	229.29	229.98	0.002781	1.91	16.05	55.91	0.51
Reach 4	692.338	50-year	31.25	228.35	230.14	229.37	230.28	0.001773	1.75	19.89	62.34	0.42
Reach 4	692.338	100-year	34.83	228.35	230.50	229.43	230.62	0.001184	1.62	24.00	70.08	0.36
Reach 4	692.338	Regional	26.96	228.35	229.89	229.28	230.03	0.002246	1.77	16.94	57.30	0.46
Reach 4	670		Culvert									
Reach 4	638.888	2-year	9.37	227.81	228.27	228.27	228.47	0.017581	2.11	5.03	39.98	1.04
Reach 4	638.888	5-year	13.72	227.81	228.39	228.39	228.65	0.016300	2.39	6.49	41.68	1.05
Reach 4	638.888	10-year	20.14	227.81	228.54	228.54	228.87	0.015043	2.72	8.39	43.32	1.05
Reach 4	638.888	25-year	24.67	227.81	228.64	228.64	229.02	0.014350	2.90	9.62	44.71	1.05
Reach 4	638.888	50-year	28.51	227.81	228.71	228.71	229.13	0.014190	3.06	10.54	45.62	1.06
Reach 4	638.888	100-year	32.30	227.81	228.79	228.79	229.24	0.013570	3.17	11.52	46.53	1.05
Reach 4	638.888	Regional	33.53	227.81	228.81	228.81	229.28	0.013584	3.22	11.77	46.78	1.05
Reach 4	638.543	2-year	9.37	227.84	228.16		228.21	0.011529	1.38	11.10	48.00	0.80
Reach 4	638.543	5-year	13.72	227.84	228.23		228.29	0.010758	1.54	14.49	48.49	0.80
Reach 4	638.543	10-year	20.14	227.84	228.32		228.40	0.009867	1.70	19.00	49.14	0.80
Reach 4	638.543	25-year	24.67	227.84	228.38		228.47	0.009405	1.80	21.93	49.56	0.79
Reach 4	638.543	50-year	28.51	227.84	228.42		228.52	0.009080	1.88	24.30	49.90	0.79
Reach 4	638.543	100-year	32.30	227.84	228.47		228.57	0.008809	1.94	26.54	50.21	0.79
Reach 4	638.543	Regional	33.53	227.84	228.48		228.59	0.008715	1.96	27.27	50.32	0.79
Reach 4	618.4043	2-year	9.37	227.68	227.94		228.01	0.015675	1.40	9.11	36.88	0.90
Reach 4	618.4043	5-year	13.72	227.68	228.01		228.10	0.014622	1.61	11.84	38.40	0.91
Reach 4	618.4043	10-year	20.14	227.68	228.11		228.22	0.013602	1.84	15.49	40.35	0.92
Reach 4	618.4043	25-year	24.67	227.68	228.16		228.29	0.013140	1.98	17.86	41.34	0.92
Reach 4	618.4043	50-year	28.51	227.68	228.21		228.35	0.012978	2.08	19.67	41.69	0.93
Reach 4	618.4043	100-year	32.30	227.68	228.25		228.40	0.012787	2.18	21.41	42.03	0.93
Reach 4	618.4043	Regional	33.53	227.68	228.26		228.42	0.012825	2.21	21.91	42.12	0.94
Reach 4	589.1152	2-year	9.37	227.07	227.47	227.43	227.53	0.016049	1.46	9.75	41.42	0.92
Reach 4	589.1152	5-year	13.72	227.07	227.52	227.48	227.61	0.018649	1.76	11.77	41.97	1.02
Reach 4	589.1152	10-year	20.14	227.07	227.58	227.55	227.71	0.021972	2.15	14.18	42.63	1.14
Reach 4	589.1152	25-year	24.67	227.07	227.62	227.60	227.78	0.023561	2.37	15.74	43.05	1.20
Reach 4	589.1152	50-year	28.51	227.07	227.64	227.63	227.83	0.024487	2.53	17.02	43.40	1.24
Reach 4	589.1152	100-year	32.30	227.07	227.67	227.67	227.88	0.025284	2.68	18.22	43.71	1.27
Reach 4	589.1152	Regional	33.53	227.07	227.68	227.68	227.89	0.025348	2.72	18.64	43.82	1.28
Reach 4	540.9416	2-year	9.37	226.72	226.96		226.99	0.013177	1.21	11.86	51.34	0.82
Reach 4	540.9416	5-year	13.72	226.72	227.04		227.08	0.011058	1.35	15.88	51.69	0.79
Reach 4	540.9416	10-year	20.14	226.72	227.14		227.19	0.009136	1.50	21.33	52.18	0.75
Reach 4	540.9416	25-year	24.67	226.72	227.21		227.27	0.008334	1.59	24.86	52.48	0.74
Reach 4	540.9416	50-year	28.51	226.72	227.26		227.32	0.007853	1.65	27.68	52.73	0.73
Reach 4	540.9416	100-year	32.30	226.72	227.31		227.38	0.007478	1.71	30.34	52.96	0.72
Reach 4	540.9416	Regional	33.53	226.72	227.33		227.40	0.007386	1.73	31.17	53.03	0.72
Reach 4	487.0009	2-year	9.37	226.22	226.61		226.63	0.003781	0.93	15.37	41.02	0.48
Reach 4	487.0009	5-year	13.72	226.22	226.71		226.74	0.003819	1.09	19.55	42.63	0.50
Reach 4	487.0009	10-year	20.14	226.22	226.83		226.87	0.003902	1.28	24.87	44.68	0.52

HEC-RAS Plan: Feb2024_Proposed_Uncontrolled_6hr_Relief River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	487.0009	25-year	24.67	226.22	226.91		226.96	0.003918	1.39	28.36	45.99	0.54
Reach 4	487.0009	50-year	28.51	226.22	226.97		227.02	0.003969	1.47	31.04	46.69	0.55
Reach 4	487.0009	100-year	32.30	226.22	227.02		227.08	0.003964	1.55	33.67	47.23	0.55
Reach 4	487.0009	Regional	33.53	226.22	227.04		227.10	0.004018	1.57	34.35	47.37	0.56
Reach 4	459.8704	2-year	9.37	225.93	226.29	226.29	226.42	0.017240	1.62	6.32	27.08	0.97
Reach 4	459.8704	5-year	13.72	225.93	226.37	226.37	226.53	0.015747	1.82	8.53	29.64	0.97
Reach 4	459.8704	10-year	20.14	225.93	226.47	226.47	226.66	0.014311	2.04	11.63	32.92	0.96
Reach 4	459.8704	25-year	24.67	225.93	226.53	226.53	226.75	0.013967	2.18	13.61	34.75	0.97
Reach 4	459.8704	50-year	28.51	225.93	226.58	226.58	226.81	0.013183	2.26	15.46	36.52	0.95
Reach 4	459.8704	100-year	32.30	225.93	226.62	226.62	226.87	0.013168	2.36	16.96	37.70	0.96
Reach 4	459.8704	Regional	33.53	225.93	226.64	226.64	226.89	0.012527	2.36	17.77	38.37	0.95
Reach 4	428.8159	2-year	9.37	225.43	226.00		226.05	0.003910	1.12	11.41	34.78	0.51
Reach 4	428.8159	5-year	13.72	225.43	226.10		226.16	0.004142	1.30	15.11	39.88	0.54
Reach 4	428.8159	10-year	20.14	225.43	226.21		226.30	0.004389	1.50	19.99	44.59	0.57
Reach 4	428.8159	25-year	24.67	225.43	226.28		226.38	0.004618	1.64	22.95	46.84	0.59
Reach 4	428.8159	50-year	28.51	225.43	226.33		226.44	0.004756	1.73	25.39	48.61	0.61
Reach 4	428.8159	100-year	32.30	225.43	226.37		226.49	0.004932	1.83	27.58	50.15	0.63
Reach 4	428.8159	Regional	33.53	225.43	226.39		226.51	0.004945	1.85	28.36	50.74	0.63
Reach 4	394.871	2-year	9.37	225.26	225.69	225.69	225.82	0.012666	1.70	7.43	33.16	0.88
Reach 4	394.871	5-year	13.72	225.26	225.78	225.78	225.93	0.012439	1.92	10.30	37.41	0.90
Reach 4	394.871	10-year	20.14	225.26	225.87	225.87	226.06	0.012170	2.16	14.23	42.56	0.92
Reach 4	394.871	25-year	24.67	225.26	225.94	225.94	226.13	0.011570	2.26	17.10	45.62	0.91
Reach 4	394.871	50-year	28.51	225.26	225.98	225.98	226.19	0.011533	2.36	19.16	47.13	0.92
Reach 4	394.871	100-year	32.30	225.26	226.03	226.03	226.24	0.011303	2.44	21.24	48.29	0.92
Reach 4	394.871	Regional	33.53	225.26	226.04	226.04	226.26	0.011476	2.48	21.72	48.49	0.93
Reach 4	349.2437	2-year	9.37	224.34	224.90	224.90	225.06	0.013559	1.98	6.45	21.21	0.93
Reach 4	349.2437	5-year	13.72	224.34	225.00	225.00	225.20	0.013166	2.23	8.78	23.87	0.95
Reach 4	349.2437	10-year	20.14	224.34	225.13	225.13	225.37	0.012678	2.51	12.00	27.05	0.96
Reach 4	349.2437	25-year	24.67	224.34	225.20	225.20	225.47	0.012538	2.67	14.12	28.95	0.98
Reach 4	349.2437	50-year	28.51	224.34	225.26	225.26	225.55	0.012303	2.79	15.95	30.62	0.98
Reach 4	349.2437	100-year	32.30	224.34	225.33	225.33	225.62	0.011641	2.85	17.98	32.30	0.96
Reach 4	349.2437	Regional	33.53	224.34	225.35	225.35	225.64	0.011591	2.88	18.55	32.70	0.97
Reach 4	315.6893	2-year	9.37	223.71	224.29	224.29	224.49	0.014018	2.03	5.46	16.10	0.95
Reach 4	315.6893	5-year	13.72	223.71	224.42	224.42	224.65	0.012701	2.26	7.58	18.37	0.94
Reach 4	315.6893	10-year	20.14	223.71	224.56	224.56	224.85	0.011946	2.54	10.46	21.14	0.95
Reach 4	315.6893	25-year	24.67	223.71	224.64	224.64	224.96	0.012001	2.73	12.25	22.75	0.97
Reach 4	315.6893	50-year	28.51	223.71	224.73	224.73	225.06	0.011183	2.81	14.17	24.70	0.95
Reach 4	315.6893	100-year	32.30	223.71	224.80	224.80	225.14	0.010639	2.88	15.99	26.27	0.94
Reach 4	315.6893	Regional	33.53	223.71	224.82	224.82	225.17	0.010574	2.91	16.52	26.66	0.94
Reach 4	275.2624	2-year	9.37	223.35	224.11		224.15	0.001603	0.91	13.51	28.48	0.34
Reach 4	275.2624	5-year	13.72	223.35	224.27		224.31	0.001617	1.04	18.19	32.51	0.36
Reach 4	275.2624	10-year	20.14	223.35	224.45		224.51	0.001657	1.19	24.56	37.93	0.37
Reach 4	275.2624	25-year	24.67	223.35	224.56		224.62	0.001692	1.29	28.79	41.42	0.38
Reach 4	275.2624	50-year	28.51	223.35	224.64		224.71	0.001716	1.36	32.20	43.65	0.39
Reach 4	275.2624	100-year	32.30	223.35	224.71		224.78	0.001742	1.42	35.43	45.64	0.40
Reach 4	275.2624	Regional	33.53	223.35	224.73		224.81	0.001757	1.44	36.39	46.21	0.40
Reach 4	229.0522	2-year	9.37	223.05	223.78	223.78	223.98	0.011872	2.26	6.33	17.75	0.92
Reach 4	229.0522	5-year	13.72	223.05	223.92	223.92	224.14	0.010781	2.47	9.09	21.37	0.90
Reach 4	229.0522	10-year	20.14	223.05	224.07	224.07	224.33	0.010600	2.77	12.68	25.62	0.92
Reach 4	229.0522	25-year	24.67	223.05	224.16	224.16	224.44	0.010665	2.95	15.00	27.92	0.94
Reach 4	229.0522	50-year	28.51	223.05	224.23	224.23	224.53	0.010596	3.07	16.98	29.78	0.95
Reach 4	229.0522	100-year	32.30	223.05	224.29	224.29	224.60	0.010573	3.18	18.85	31.37	0.96
Reach 4	229.0522	Regional	33.53	223.05	224.31	224.31	224.63	0.010385	3.20	19.59	31.97	0.95
Reach 4	173.0601	2-year	9.37	222.67	223.32		223.38	0.003779	1.21	11.05	30.94	0.51
Reach 4	173.0601	5-year	13.72	222.67	223.45		223.52	0.003544	1.34	15.36	35.39	0.51
Reach 4	173.0601	10-year	20.14	222.67	223.61		223.69	0.003418	1.50	21.25	41.35	0.52
Reach 4	173.0601	25-year	24.67	222.67	223.70		223.79	0.003354	1.59	25.27	45.11	0.52
Reach 4	173.0601	50-year	28.51	222.67	223.77		223.87	0.003311	1.66	28.60	48.04	0.53
Reach 4	173.0601	100-year	32.30	222.67	223.84		223.94	0.003262	1.72	31.85	50.63	0.53
Reach 4	173.0601	Regional	33.53	222.67	223.86		223.96	0.003224	1.73	32.90	50.93	0.53
Reach 4	153.1	2-year	9.37	222.33	223.07	223.00	223.19	0.009056	2.11	8.59	22.11	0.81
Reach 4	153.1	5-year	13.72	222.33	223.19	223.11	223.33	0.009314	2.39	11.48	25.31	0.85
Reach 4	153.1	10-year	20.14	222.33	223.35	223.25	223.51	0.008734	2.61	15.88	29.23	0.85
Reach 4	153.1	25-year	24.67	222.33	223.43	223.33	223.61	0.009401	2.84	18.07	31.00	0.89
Reach 4	153.1	50-year	28.51	222.33	223.49	223.39	223.68	0.009728	3.00	19.95	32.45	0.91
Reach 4	153.1	100-year	32.30	222.33	223.55	223.44	223.76	0.009542	3.09	22.17	34.14	0.91
Reach 4	153.1	Regional	33.53	222.33	223.57	223.46	223.78	0.009504	3.12	22.86	34.68	0.91

HEC-RAS Plan: Feb2024_Proposed_Uncontrolled_6hr_Relief River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	137.87	2-year	9.37	221.96	222.57	222.57	222.76	0.014343	1.99	5.34	16.07	0.95
Reach 4	137.87	5-year	13.72	221.96	222.69	222.69	222.92	0.012775	2.21	7.46	18.63	0.94
Reach 4	137.87	10-year	20.14	221.96	222.83	222.83	223.12	0.012250	2.50	10.31	22.54	0.95
Reach 4	137.87	25-year	24.67	221.96	222.95	222.95	223.23	0.010307	2.54	13.19	26.65	0.89
Reach 4	137.87	50-year	28.51	221.96	223.02	223.02	223.31	0.009631	2.61	15.28	28.25	0.88
Reach 4	137.87	100-year	32.30	221.96	223.08	223.08	223.39	0.009679	2.72	16.88	29.22	0.89
Reach 4	137.87	Regional	33.53	221.96	223.10	223.10	223.41	0.009667	2.75	17.40	29.53	0.89
Reach 4	99.65	2-year	9.37	221.71	222.19	222.06	222.24	0.004611	1.04	9.52	29.54	0.53
Reach 4	99.65	5-year	13.72	221.71	222.27	222.14	222.35	0.005022	1.24	12.14	32.50	0.57
Reach 4	99.65	10-year	20.14	221.71	222.38	222.23	222.48	0.005287	1.45	15.81	36.14	0.61
Reach 4	99.65	25-year	24.67	221.71	222.44	222.30	222.56	0.005508	1.59	18.11	37.96	0.63
Reach 4	99.65	50-year	28.51	221.71	222.49	222.35	222.63	0.005681	1.69	19.95	39.35	0.65
Reach 4	99.65	100-year	32.30	221.71	222.54	222.39	222.68	0.005823	1.78	21.72	40.64	0.66
Reach 4	99.65	Regional	33.53	221.71	222.55	222.41	222.70	0.005869	1.81	22.27	41.04	0.67
Reach 4	11.71822	2-year	9.37	221.55	221.74	221.74	221.85	0.049407	1.83	6.51	30.73	1.49
Reach 4	11.71822	5-year	13.72	221.55	221.81	221.81	221.94	0.044212	2.06	8.58	32.20	1.47
Reach 4	11.71822	10-year	20.14	221.55	221.88	221.88	222.06	0.042282	2.41	11.08	33.83	1.50
Reach 4	11.71822	25-year	24.67	221.55	221.94	221.94	222.14	0.039028	2.61	12.91	34.93	1.49
Reach 4	11.71822	50-year	28.51	221.55	221.98	221.98	222.20	0.036753	2.76	14.42	35.81	1.47
Reach 4	11.71822	100-year	32.30	221.55	222.02	222.02	222.26	0.034967	2.89	15.87	36.64	1.46
Reach 4	11.71822	Regional	33.53	221.55	222.03	222.03	222.28	0.034396	2.93	16.35	36.91	1.46

HEC-RAS Plan: Feb2024_Proposed_Uncontrolled_12hr_Relief River: Campbell's TribA Reach: Reach 4

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	790	2-year	8.76	228.79	229.61	229.61	229.98	0.013397	2.73	3.38	53.76	1.00
Reach 4	790	5-year	11.82	228.79	229.77	229.77	230.22	0.012831	3.03	4.11	55.07	1.01
Reach 4	790	10-year	13.98	228.79	229.88	229.88	230.38	0.012306	3.20	4.61	55.72	1.01
Reach 4	790	25-year	16.67	228.79	230.00	230.00	230.57	0.011877	3.40	5.18	56.11	1.01
Reach 4	790	50-year	18.63	228.79	230.09	230.09	230.70	0.011593	3.52	5.58	56.32	1.01
Reach 4	790	100-year	20.60	228.79	230.18	230.18	230.82	0.011319	3.64	5.97	56.52	1.01
Reach 4	790	Regional	26.96	228.79	230.43	230.43	231.20	0.010711	3.98	7.14	57.14	1.02
Reach 4	763	2-year	8.76	228.45	229.17		229.19	0.001278	0.74	18.27	38.70	0.30
Reach 4	763	5-year	11.82	228.45	229.30		229.32	0.001117	0.78	23.43	40.57	0.29
Reach 4	763	10-year	13.98	228.45	229.38		229.41	0.001012	0.80	26.95	40.80	0.28
Reach 4	763	25-year	16.67	228.45	229.51		229.53	0.000840	0.80	32.04	41.12	0.26
Reach 4	763	50-year	18.63	228.45	229.60		229.62	0.000743	0.80	35.77	41.36	0.25
Reach 4	763	100-year	20.60	228.45	229.69		229.71	0.000665	0.80	39.52	41.61	0.24
Reach 4	763	Regional	26.96	228.45	230.06		230.08	0.000399	0.75	55.22	42.78	0.19
Reach 4	727	2-year	8.76	228.36	229.12	228.76	229.14	0.000986	0.65	14.04	24.50	0.26
Reach 4	727	5-year	11.82	228.36	229.25	228.82	229.28	0.000942	0.72	17.30	26.12	0.27
Reach 4	727	10-year	13.98	228.36	229.34	228.85	229.37	0.000908	0.76	19.63	27.89	0.27
Reach 4	727	25-year	16.67	228.36	229.47	228.90	229.50	0.000796	0.79	23.34	30.22	0.26
Reach 4	727	50-year	18.63	228.36	229.56	228.93	229.59	0.000720	0.79	26.20	31.55	0.25
Reach 4	727	100-year	20.60	228.36	229.65	228.96	229.68	0.000655	0.80	29.18	32.94	0.24
Reach 4	727	Regional	26.96	228.36	230.05	229.05	230.07	0.000229	0.58	74.72	85.90	0.15
Reach 4	692.338	2-year	8.76	228.35	228.83	228.83	229.03	0.015416	2.06	4.72	39.00	0.99
Reach 4	692.338	5-year	11.82	228.35	228.92	228.92	229.17	0.014895	2.29	5.74	41.86	1.00
Reach 4	692.338	10-year	13.98	228.35	229.07	228.98	229.27	0.008831	2.08	7.48	43.57	0.80
Reach 4	692.338	25-year	16.67	228.35	229.23	229.05	229.42	0.005995	1.98	9.38	45.50	0.69
Reach 4	692.338	50-year	18.63	228.35	229.34	229.10	229.52	0.005016	1.96	10.60	46.30	0.64
Reach 4	692.338	100-year	20.60	228.35	229.44	229.14	229.62	0.004368	1.95	11.76	47.17	0.61
Reach 4	692.338	Regional	26.96	228.35	229.89	229.28	230.03	0.002246	1.77	16.94	57.30	0.46
Reach 4	670		Culvert									
Reach 4	638.888	2-year	7.47	227.81	228.22	228.22	228.39	0.017699	1.93	4.37	38.10	1.02
Reach 4	638.888	5-year	10.32	227.81	228.30	228.30	228.51	0.016945	2.17	5.40	40.58	1.04
Reach 4	638.888	10-year	14.20	227.81	228.40	228.40	228.67	0.016025	2.41	6.66	41.83	1.04
Reach 4	638.888	25-year	16.87	227.81	228.47	228.47	228.76	0.015396	2.55	7.49	42.56	1.04
Reach 4	638.888	50-year	18.88	227.81	228.51	228.51	228.83	0.015384	2.67	8.02	43.00	1.05
Reach 4	638.888	100-year	21.00	227.81	228.56	228.56	228.90	0.014850	2.75	8.64	43.52	1.05
Reach 4	638.888	Regional	33.53	227.81	228.81	228.81	229.28	0.013584	3.22	11.77	46.78	1.05
Reach 4	638.543	2-year	7.47	227.84	228.12		228.17	0.011774	1.29	9.52	47.76	0.80
Reach 4	638.543	5-year	10.32	227.84	228.17		228.23	0.011368	1.42	11.87	48.11	0.80
Reach 4	638.543	10-year	14.20	227.84	228.23		228.30	0.010690	1.55	14.84	48.54	0.80
Reach 4	638.543	25-year	16.87	227.84	228.27		228.35	0.010295	1.62	16.76	48.82	0.80
Reach 4	638.543	50-year	18.88	227.84	228.30		228.38	0.010048	1.68	18.13	49.02	0.80
Reach 4	638.543	100-year	21.00	227.84	228.33		228.41	0.009759	1.72	19.58	49.23	0.80
Reach 4	638.543	Regional	33.53	227.84	228.48		228.59	0.008715	1.96	27.27	50.32	0.79
Reach 4	618.4043	2-year	7.47	227.68	227.90		227.96	0.016716	1.30	7.75	36.10	0.91
Reach 4	618.4043	5-year	10.32	227.68	227.96		228.03	0.015342	1.45	9.74	37.24	0.90
Reach 4	618.4043	10-year	14.20	227.68	228.02		228.11	0.014587	1.63	12.11	38.55	0.91
Reach 4	618.4043	25-year	16.87	227.68	228.06		228.16	0.014035	1.73	13.68	39.40	0.91
Reach 4	618.4043	50-year	18.88	227.68	228.09		228.20	0.013662	1.80	14.83	40.01	0.91
Reach 4	618.4043	100-year	21.00	227.68	228.12		228.23	0.013413	1.87	16.00	40.85	0.92
Reach 4	618.4043	Regional	33.53	227.68	228.26		228.42	0.012825	2.21	21.91	42.12	0.94
Reach 4	589.1152	2-year	7.47	227.07	227.45	227.41	227.50	0.014491	1.31	8.73	41.18	0.86
Reach 4	589.1152	5-year	10.32	227.07	227.48	227.45	227.55	0.016838	1.53	10.20	41.53	0.95
Reach 4	589.1152	10-year	14.20	227.07	227.53	227.49	227.62	0.018796	1.79	11.99	42.03	1.03
Reach 4	589.1152	25-year	16.87	227.07	227.55	227.52	227.66	0.020454	1.96	12.99	42.31	1.08
Reach 4	589.1152	50-year	18.88	227.07	227.57	227.54	227.69	0.021396	2.08	13.74	42.51	1.12
Reach 4	589.1152	100-year	21.00	227.07	227.59	227.56	227.72	0.022325	2.19	14.49	42.71	1.15
Reach 4	589.1152	Regional	33.53	227.07	227.68	227.68	227.89	0.025348	2.72	18.64	43.82	1.28
Reach 4	540.9416	2-year	7.47	226.72	226.92		226.95	0.014802	1.13	9.92	51.16	0.84
Reach 4	540.9416	5-year	10.32	226.72	226.98		227.01	0.012560	1.24	12.79	51.42	0.81
Reach 4	540.9416	10-year	14.20	226.72	227.04		227.09	0.010865	1.36	16.31	51.73	0.78
Reach 4	540.9416	25-year	16.87	226.72	227.09		227.14	0.009939	1.43	18.64	51.94	0.77
Reach 4	540.9416	50-year	18.88	226.72	227.12		227.17	0.009428	1.47	20.30	52.08	0.76
Reach 4	540.9416	100-year	21.00	226.72	227.15		227.21	0.008958	1.52	22.02	52.24	0.75
Reach 4	540.9416	Regional	33.53	226.72	227.33		227.40	0.007386	1.73	31.17	53.03	0.72
Reach 4	487.0009	2-year	7.47	226.22	226.56		226.58	0.003735	0.84	13.35	39.81	0.46
Reach 4	487.0009	5-year	10.32	226.22	226.63		226.66	0.003800	0.97	16.32	41.36	0.48
Reach 4	487.0009	10-year	14.20	226.22	226.72		226.75	0.003824	1.10	19.98	42.79	0.50

HEC-RAS Plan: Feb2024_Proposed_Uncontrolled_12hr_Relief River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	487.0009	25-year	16.87	226.22	226.77		226.81	0.003885	1.19	22.20	43.66	0.51
Reach 4	487.0009	50-year	18.88	226.22	226.81		226.85	0.003872	1.24	23.91	44.32	0.52
Reach 4	487.0009	100-year	21.00	226.22	226.85		226.89	0.003909	1.30	25.55	44.94	0.53
Reach 4	487.0009	Regional	33.53	226.22	227.04		227.10	0.004018	1.57	34.35	47.37	0.56
Reach 4	459.8704	2-year	7.47	225.93	226.25	226.25	226.37	0.018101	1.51	5.32	25.82	0.97
Reach 4	459.8704	5-year	10.32	225.93	226.31	226.31	226.45	0.016834	1.67	6.82	27.67	0.97
Reach 4	459.8704	10-year	14.20	225.93	226.38	226.38	226.54	0.015649	1.84	8.77	29.89	0.97
Reach 4	459.8704	25-year	16.87	225.93	226.42	226.42	226.60	0.014716	1.93	10.13	31.36	0.96
Reach 4	459.8704	50-year	18.88	225.93	226.45	226.45	226.64	0.014793	2.01	10.96	32.09	0.97
Reach 4	459.8704	100-year	21.00	225.93	226.48	226.48	226.68	0.014212	2.07	12.02	33.26	0.96
Reach 4	459.8704	Regional	33.53	225.93	226.64	226.64	226.89	0.012527	2.36	17.77	38.37	0.95
Reach 4	428.8159	2-year	7.47	225.43	225.95		226.00	0.003447	0.99	10.01	32.12	0.47
Reach 4	428.8159	5-year	10.32	225.43	226.02		226.08	0.003959	1.16	12.26	36.06	0.51
Reach 4	428.8159	10-year	14.20	225.43	226.11		226.18	0.004168	1.32	15.49	40.37	0.54
Reach 4	428.8159	25-year	16.87	225.43	226.16		226.23	0.004277	1.41	17.59	42.67	0.56
Reach 4	428.8159	50-year	18.88	225.43	226.19		226.28	0.004339	1.47	19.09	43.88	0.56
Reach 4	428.8159	100-year	21.00	225.43	226.22		226.31	0.004426	1.53	20.59	45.05	0.57
Reach 4	428.8159	Regional	33.53	225.43	226.39		226.51	0.004945	1.85	28.36	50.74	0.63
Reach 4	394.871	2-year	7.47	225.26	225.62	225.62	225.76	0.018040	1.76	5.24	24.35	1.01
Reach 4	394.871	5-year	10.32	225.26	225.71	225.71	225.85	0.012651	1.76	8.07	34.15	0.88
Reach 4	394.871	10-year	14.20	225.26	225.78	225.78	225.94	0.012402	1.94	10.61	37.84	0.90
Reach 4	394.871	25-year	16.87	225.26	225.83	225.83	226.00	0.012241	2.04	12.29	40.09	0.90
Reach 4	394.871	50-year	18.88	225.26	225.86	225.86	226.03	0.012255	2.12	13.46	41.60	0.91
Reach 4	394.871	100-year	21.00	225.26	225.89	225.89	226.07	0.012075	2.18	14.77	43.21	0.91
Reach 4	394.871	Regional	33.53	225.26	226.04	226.04	226.26	0.011476	2.48	21.72	48.49	0.93
Reach 4	349.2437	2-year	7.47	224.34	224.84	224.84	224.99	0.014161	1.86	5.32	19.74	0.93
Reach 4	349.2437	5-year	10.32	224.34	224.92	224.92	225.10	0.013602	2.05	6.95	21.80	0.94
Reach 4	349.2437	10-year	14.20	224.34	225.01	225.01	225.22	0.013068	2.25	9.04	24.15	0.95
Reach 4	349.2437	25-year	16.87	224.34	225.07	225.07	225.29	0.012855	2.37	10.40	25.53	0.96
Reach 4	349.2437	50-year	18.88	224.34	225.10	225.10	225.34	0.012762	2.46	11.38	26.47	0.96
Reach 4	349.2437	100-year	21.00	224.34	225.14	225.14	225.39	0.012615	2.54	12.42	27.44	0.97
Reach 4	349.2437	Regional	33.53	224.34	225.35	225.35	225.64	0.011591	2.88	18.55	32.70	0.97
Reach 4	315.6893	2-year	7.47	223.71	224.23	224.23	224.41	0.014844	1.90	4.51	14.87	0.95
Reach 4	315.6893	5-year	10.32	223.71	224.32	224.32	224.53	0.013585	2.08	5.95	16.69	0.94
Reach 4	315.6893	10-year	14.20	223.71	224.43	224.43	224.67	0.012583	2.28	7.81	18.59	0.94
Reach 4	315.6893	25-year	16.87	223.71	224.49	224.49	224.75	0.012455	2.42	8.96	19.68	0.95
Reach 4	315.6893	50-year	18.88	223.71	224.53	224.53	224.81	0.012140	2.49	9.88	20.59	0.95
Reach 4	315.6893	100-year	21.00	223.71	224.58	224.58	224.87	0.011710	2.56	10.89	21.54	0.94
Reach 4	315.6893	Regional	33.53	223.71	224.82	224.82	225.17	0.010574	2.91	16.52	26.66	0.94
Reach 4	275.2624	2-year	7.47	223.35	224.03		224.07	0.001603	0.84	11.32	26.38	0.34
Reach 4	275.2624	5-year	10.32	223.35	224.15		224.19	0.001599	0.94	14.59	29.46	0.35
Reach 4	275.2624	10-year	14.20	223.35	224.28		224.33	0.001627	1.05	18.65	32.88	0.36
Reach 4	275.2624	25-year	16.87	223.35	224.37		224.42	0.001601	1.11	21.54	35.22	0.36
Reach 4	275.2624	50-year	18.88	223.35	224.42		224.47	0.001639	1.16	23.39	36.90	0.37
Reach 4	275.2624	100-year	21.00	223.35	224.47		224.53	0.001665	1.21	25.37	38.62	0.38
Reach 4	275.2624	Regional	33.53	223.35	224.73		224.81	0.001757	1.44	36.39	46.21	0.40
Reach 4	229.0522	2-year	7.47	223.05	223.71	223.71	223.89	0.012319	2.13	5.14	15.94	0.91
Reach 4	229.0522	5-year	10.32	223.05	223.81	223.81	224.02	0.011723	2.32	6.90	18.57	0.92
Reach 4	229.0522	10-year	14.20	223.05	223.93	223.93	224.16	0.010728	2.49	9.37	21.66	0.90
Reach 4	229.0522	25-year	16.87	223.05	223.97	223.97	224.24	0.012061	2.74	10.30	22.59	0.97
Reach 4	229.0522	50-year	18.88	223.05	224.04	224.04	224.30	0.010814	2.73	11.91	24.80	0.93
Reach 4	229.0522	100-year	21.00	223.05	224.09	224.09	224.36	0.010585	2.80	13.14	26.08	0.93
Reach 4	229.0522	Regional	33.53	223.05	224.31	224.31	224.63	0.010385	3.20	19.59	31.97	0.95
Reach 4	173.0601	2-year	7.47	222.67	223.26		223.31	0.003953	1.13	9.03	28.08	0.51
Reach 4	173.0601	5-year	10.32	222.67	223.36		223.42	0.003685	1.24	12.05	32.01	0.51
Reach 4	173.0601	10-year	14.20	222.67	223.47		223.54	0.003531	1.35	15.81	35.85	0.51
Reach 4	173.0601	25-year	16.87	222.67	223.53		223.61	0.003472	1.42	18.28	38.30	0.52
Reach 4	173.0601	50-year	18.88	222.67	223.58		223.66	0.003430	1.47	20.11	40.01	0.52
Reach 4	173.0601	100-year	21.00	222.67	223.63		223.71	0.003404	1.52	22.03	42.17	0.52
Reach 4	173.0601	Regional	33.53	222.67	223.86		223.96	0.003224	1.73	32.90	50.93	0.53
Reach 4	153.1	2-year	7.47	222.33	223.01	222.94	223.11	0.008780	1.95	7.27	20.39	0.79
Reach 4	153.1	5-year	10.32	222.33	223.10	223.02	223.22	0.009140	2.18	9.25	22.92	0.82
Reach 4	153.1	10-year	14.20	222.33	223.20	223.12	223.35	0.009326	2.41	11.79	25.60	0.85
Reach 4	153.1	25-year	16.87	222.33	223.28	223.18	223.43	0.008951	2.50	13.70	27.36	0.85
Reach 4	153.1	50-year	18.88	222.33	223.32	223.22	223.48	0.008977	2.59	14.94	28.44	0.85
Reach 4	153.1	100-year	21.00	222.33	223.37	223.27	223.53	0.008586	2.63	16.51	29.75	0.84
Reach 4	153.1	Regional	33.53	222.33	223.57	223.46	223.78	0.009504	3.12	22.86	34.68	0.91

HEC-RAS Plan: Feb2024_Proposed_Uncontrolled_12hr_Relief River: Campbell's TribA Reach: Reach 4 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 4	137.87	2-year	7.47	221.96	222.51	222.51	222.68	0.015348	1.87	4.40	14.80	0.96
Reach 4	137.87	5-year	10.32	221.96	222.60	222.60	222.80	0.013961	2.05	5.80	16.66	0.95
Reach 4	137.87	10-year	14.20	221.96	222.70	222.70	222.94	0.012655	2.23	7.69	18.89	0.93
Reach 4	137.87	25-year	16.87	221.96	222.76	222.76	223.02	0.012732	2.38	8.79	20.25	0.95
Reach 4	137.87	50-year	18.88	221.96	222.81	222.81	223.08	0.012147	2.44	9.81	21.78	0.94
Reach 4	137.87	100-year	21.00	221.96	222.85	222.85	223.14	0.012320	2.55	10.66	23.11	0.96
Reach 4	137.87	Regional	33.53	221.96	223.10	223.10	223.41	0.009667	2.75	17.40	29.53	0.89
Reach 4	99.65	2-year	7.47	221.71	222.15	222.02	222.19	0.004425	0.94	8.24	27.95	0.51
Reach 4	99.65	5-year	10.32	221.71	222.21	222.08	222.27	0.004707	1.09	10.12	30.25	0.54
Reach 4	99.65	10-year	14.20	221.71	222.28	222.14	222.36	0.005065	1.26	12.41	32.78	0.58
Reach 4	99.65	25-year	16.87	221.71	222.33	222.19	222.42	0.005205	1.35	13.94	34.38	0.59
Reach 4	99.65	50-year	18.88	221.71	222.36	222.22	222.46	0.005278	1.42	15.08	35.51	0.60
Reach 4	99.65	100-year	21.00	221.71	222.39	222.25	222.50	0.005332	1.48	16.26	36.50	0.61
Reach 4	99.65	Regional	33.53	221.71	222.55	222.41	222.70	0.005869	1.81	22.27	41.04	0.67
Reach 4	11.71822	2-year	7.47	221.55	221.71	221.71	221.81	0.052878	1.70	5.53	30.02	1.50
Reach 4	11.71822	5-year	10.32	221.55	221.76	221.76	221.87	0.048255	1.89	6.97	31.07	1.48
Reach 4	11.71822	10-year	14.20	221.55	221.82	221.82	221.95	0.043614	2.08	8.81	32.36	1.46
Reach 4	11.71822	25-year	16.87	221.55	221.85	221.85	222.00	0.043107	2.20	9.87	33.08	1.48
Reach 4	11.71822	50-year	18.88	221.55	221.87	221.87	222.04	0.042710	2.33	10.61	33.54	1.49
Reach 4	11.71822	100-year	21.00	221.55	221.89	221.89	222.08	0.041560	2.45	11.44	34.04	1.50
Reach 4	11.71822	Regional	33.53	221.55	222.03	222.03	222.28	0.034396	2.93	16.35	36.91	1.46

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms River: Salt Creek Reach: Reach1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1012.797 34.03-12	2-year	0.62	251.01	251.39	251.22	251.40	0.002151	0.54	1.14	4.30	0.33
Reach1	1012.797 34.03-12	5-year	1.20	251.01	251.53	251.31	251.55	0.002335	0.65	1.84	5.48	0.36
Reach1	1012.797 34.03-12	10-year	11.27	251.01	252.14	251.93	252.18	0.001856	1.13	26.26	76.88	0.38
Reach1	1012.797 34.03-12	25-year	15.28	251.01	252.13		252.21	0.003659	1.57	25.49	76.82	0.53
Reach1	1012.797 34.03-12	50-year	18.56	251.01	252.14		252.25	0.005252	1.89	25.80	76.85	0.64
Reach1	1012.797 34.03-12	100-year	21.63	251.01	252.20		252.30	0.004673	1.86	30.66	77.22	0.61
Reach1	1012.797 34.03-12	Regional	74.63	251.01	252.96		253.04	0.002522	2.03	91.57	82.15	0.49
Reach1	1012.596 34.03-11	2-year	0.62	250.26	250.47		250.52	0.013312	0.95	0.65	4.22	0.77
Reach1	1012.596 34.03-11	5-year	1.20	250.26	250.56		250.63	0.012691	1.14	1.06	4.99	0.79
Reach1	1012.596 34.03-11	10-year	11.27	250.26	251.12	251.12	251.41	0.012058	2.40	5.15	12.15	0.93
Reach1	1012.596 34.03-11	25-year	15.28	250.26	251.51		251.60	0.002748	1.55	21.94	61.78	0.48
Reach1	1012.596 34.03-11	50-year	18.56	250.26	251.76		251.81	0.001210	1.18	39.37	72.48	0.33
Reach1	1012.596 34.03-11	100-year	21.63	250.26	251.97		252.00	0.000717	1.00	54.68	74.33	0.26
Reach1	1012.596 34.03-11	Regional	74.63	250.26	252.63		252.70	0.001424	1.80	105.99	83.93	0.39
Reach1	1012.484 34.03-10	2-year	0.62	249.90	250.15	250.02	250.16	0.001372	0.31	2.02	10.14	0.22
Reach1	1012.484 34.03-10	5-year	1.20	249.90	250.26	250.06	250.27	0.001337	0.38	3.19	10.88	0.22
Reach1	1012.484 34.03-10	10-year	11.27	249.90	251.23	250.46	251.23	0.000205	0.37	61.83	98.11	0.11
Reach1	1012.484 34.03-10	25-year	15.28	249.90	251.54	250.62	251.54	0.000122	0.33	92.69	103.69	0.09
Reach1	1012.484 34.03-10	50-year	18.56	249.90	251.77	250.70	251.77	0.000091	0.32	116.99	106.56	0.08
Reach1	1012.484 34.03-10	100-year	21.63	249.90	251.97	250.75	251.97	0.000074	0.31	138.88	108.65	0.07
Reach1	1012.484 34.03-10	Regional	74.63	249.90	252.62	251.15	252.63	0.000255	0.68	211.45	116.47	0.14
Reach1	1012.476 34.03-09	2-year	0.62	249.87	250.14	250.01	250.15	0.001150	0.33	1.86	9.26	0.24
Reach1	1012.476 34.03-09	5-year	1.20	249.87	250.25	250.05	250.26	0.001065	0.41	2.92	9.89	0.24
Reach1	1012.476 34.03-09	10-year	11.27	249.87	251.18	250.47	251.21	0.000772	0.84	13.42	94.23	0.25
Reach1	1012.476 34.03-09	25-year	15.28	249.87	251.47	250.58	251.51	0.000642	0.90	17.02	97.04	0.24
Reach1	1012.476 34.03-09	50-year	18.56	249.87	251.70	250.66	251.74	0.000579	0.94	19.74	98.49	0.24
Reach1	1012.476 34.03-09	100-year	21.63	249.87	251.89	250.74	251.94	0.000536	0.98	22.13	99.27	0.23
Reach1	1012.476 34.03-09	Regional	74.63	249.87	252.61	251.64	252.62	0.000251	0.83	203.24	146.68	0.17
Reach1	1012.466 x-73 (34.03-08)		Culvert									
Reach1	1012.451 34.03-07	2-year	0.62	249.87	250.13	249.98	250.13	0.001867	0.31	1.96	9.47	0.22
Reach1	1012.451 34.03-07	5-year	1.20	249.87	250.23	250.03	250.24	0.002025	0.41	2.94	10.36	0.24
Reach1	1012.451 34.03-07	10-year	11.27	249.87	250.83	250.44	250.90	0.003719	1.18	10.07	47.62	0.40
Reach1	1012.451 34.03-07	25-year	15.28	249.87	250.90	250.55	251.01	0.005202	1.47	10.99	49.43	0.48
Reach1	1012.451 34.03-07	50-year	18.56	249.87	250.90	250.64	251.06	0.007802	1.80	10.94	49.36	0.59
Reach1	1012.451 34.03-07	100-year	21.63	249.87	250.95	250.72	251.14	0.008928	1.99	11.56	51.31	0.64
Reach1	1012.451 34.03-07	Regional	74.63	249.87	251.61	251.61	252.38	0.018141	3.99	20.12	88.73	0.99
Reach1	1012.447 34.03-06	2-year	0.63	249.87	250.11		250.12	0.003053	0.50	1.26	7.00	0.38
Reach1	1012.447 34.03-06	5-year	1.23	249.87	250.20		250.22	0.003213	0.63	1.94	7.83	0.41
Reach1	1012.447 34.03-06	10-year	11.53	249.87	250.75	250.55	250.86	0.004193	1.52	11.19	47.73	0.56
Reach1	1012.447 34.03-06	25-year	15.64	249.87	250.82	250.73	250.96	0.005356	1.82	15.02	64.45	0.64
Reach1	1012.447 34.03-06	50-year	19.00	249.87	250.87	250.85	251.03	0.005783	1.97	18.33	65.10	0.67
Reach1	1012.447 34.03-06	100-year	22.14	249.87	250.92	250.90	251.09	0.005715	2.03	21.85	65.63	0.68
Reach1	1012.447 34.03-06	Regional	76.38	249.87	251.56		251.75	0.004848	2.66	67.67	80.78	0.68
Reach1	1012.394 34.03-05	2-year	0.63	249.54	249.71	249.71	249.76	0.023610	1.02	0.62	5.47	0.97
Reach1	1012.394 34.03-05	5-year	1.23	249.54	249.77	249.77	249.85	0.023092	1.23	1.00	6.58	1.01
Reach1	1012.394 34.03-05	10-year	11.53	249.54	250.28	250.28	250.51	0.011271	2.13	6.29	28.94	0.88
Reach1	1012.394 34.03-05	25-year	15.64	249.54	250.43	250.43	250.62	0.007711	2.05	12.73	52.39	0.76
Reach1	1012.394 34.03-05	50-year	19.00	249.54	250.51	250.51	250.69	0.006961	2.08	17.18	57.07	0.73
Reach1	1012.394 34.03-05	100-year	22.14	249.54	250.56	250.56	250.75	0.007030	2.18	20.00	57.95	0.74
Reach1	1012.394 34.03-05	Regional	76.38	249.54	251.06	251.06	251.39	0.009235	3.37	51.26	69.98	0.92
Reach1	1012.190 34.03-04	2-year	0.63	248.52	248.71		248.71	0.002163	0.30	2.09	15.54	0.26
Reach1	1012.190 34.03-04	5-year	1.23	248.52	248.78		248.79	0.001968	0.37	3.32	16.17	0.26
Reach1	1012.190 34.03-04	10-year	11.53	248.52	249.29		249.32	0.002282	0.85	21.69	99.09	0.32
Reach1	1012.190 34.03-04	25-year	15.64	248.52	249.37		249.41	0.002424	0.94	30.72	118.87	0.34
Reach1	1012.190 34.03-04	50-year	19.00	248.52	249.43		249.47	0.002364	0.97	38.01	123.38	0.34
Reach1	1012.190 34.03-04	100-year	22.14	248.52	249.48		249.51	0.002355	1.00	43.90	126.08	0.34
Reach1	1012.190 34.03-04	Regional	76.38	248.52	250.08		250.12	0.001862	1.24	128.02	155.69	0.32
Reach1	1011.995 34.03-03	2-year	0.63	247.86	248.13		248.14	0.004105	0.60	1.06	5.67	0.44
Reach1	1011.995 34.03-03	5-year	1.23	247.86	248.23		248.25	0.004102	0.74	1.67	6.44	0.46
Reach1	1011.995 34.03-03	10-year	11.53	247.86	248.78		248.84	0.002953	1.26	19.66	69.44	0.47
Reach1	1011.995 34.03-03	25-year	15.64	247.86	248.90		248.95	0.002582	1.30	28.21	79.82	0.45
Reach1	1011.995 34.03-03	50-year	19.00	247.86	248.98		249.03	0.002403	1.34	35.44	85.88	0.44
Reach1	1011.995 34.03-03	100-year	22.14	247.86	249.05		249.10	0.002286	1.36	40.99	88.33	0.43
Reach1	1011.995 34.03-03	Regional	76.38	247.86	249.71		249.78	0.002109	1.83	105.89	104.87	0.45
Reach1	1011.786 34.03-02	2-year	0.63	246.99	247.35		247.37	0.003373	0.57	1.12	5.57	0.40
Reach1	1011.786 34.03-02	5-year	1.23	246.99	247.46		247.49	0.003290	0.68	1.81	6.68	0.42
Reach1	1011.786 34.03-02	10-year	11.53	246.99	248.02		248.11	0.004619	1.41	9.86	29.82	0.57
Reach1	1011.786 34.03-02	25-year	15.64	246.99	248.08	247.96	248.22	0.005788	1.68	12.03	38.48	0.65
Reach1	1011.786 34.03-02	50-year	19.00	246.99	248.12	248.04	248.29	0.006893	1.90	13.54	40.73	0.71
Reach1	1011.786 34.03-02	100-year	22.14	246.99	248.16	248.11	248.36	0.007499	2.06	15.30	45.05	0.75
Reach1	1011.786 34.03-02	Regional	76.38	246.99	248.72	248.72	249.08	0.008541	3.16	47.40	70.63	0.88
Reach1	1011.625 34.03-01	2-year	0.63	246.31	246.57		246.60	0.007215	0.73	0.88	5.88	0.57
Reach1	1011.625 34.03-01	5-year	1.23	246.31	246.65		246.69	0.008310	0.93	1.40	7.46	0.64

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1011.625 34.03-01	10-year	11.53	246.31	247.18	247.08	247.30	0.006175	1.71	14.08	69.74	0.66
Reach1	1011.625 34.03-01	25-year	15.64	246.31	247.28	247.25	247.38	0.005213	1.72	21.74	78.25	0.62
Reach1	1011.625 34.03-01	50-year	19.00	246.31	247.35		247.44	0.004592	1.71	27.93	105.08	0.60
Reach1	1011.625 34.03-01	100-year	22.14	246.31	247.43	247.33	247.51	0.004205	1.73	36.27	116.45	0.58
Reach1	1011.625 34.03-01	Regional	76.38	246.31	248.12		248.16	0.001912	1.70	130.77	157.20	0.43
Reach1	1011.370 34.01-02	2-year	0.77	244.89	245.13		245.15	0.004718	0.58	1.32	8.15	0.46
Reach1	1011.370 34.01-02	5-year	1.49	244.89	245.23		245.25	0.004295	0.69	2.16	9.64	0.46
Reach1	1011.370 34.01-02	10-year	14.22	244.89	245.72	245.60	245.85	0.005730	1.72	11.82	25.08	0.65
Reach1	1011.370 34.01-02	25-year	19.23	244.89	245.82	245.70	245.99	0.006364	1.97	14.33	26.09	0.70
Reach1	1011.370 34.01-02	50-year	23.31	244.89	245.89	245.78	246.09	0.006884	2.16	16.15	27.18	0.74
Reach1	1011.370 34.01-02	100-year	27.14	244.89	245.95	245.84	246.18	0.007313	2.33	17.85	28.88	0.77
Reach1	1011.370 34.01-02	Regional	93.13	244.89	246.64	246.64	247.21	0.010128	3.96	40.77	36.87	0.99
Reach1	1011.241 34.01-01	2-year	0.77	244.29	244.55	244.47	244.57	0.004422	0.63	1.37	9.88	0.46
Reach1	1011.241 34.01-01	5-year	1.49	244.29	244.62	244.54	244.66	0.005062	0.84	2.43	19.89	0.52
Reach1	1011.241 34.01-01	10-year	14.22	244.29	245.00	244.95	245.08	0.006562	1.73	20.11	61.38	0.69
Reach1	1011.241 34.01-01	25-year	19.23	244.29	245.09	245.01	245.17	0.006560	1.87	25.22	63.55	0.70
Reach1	1011.241 34.01-01	50-year	23.31	244.29	245.15	245.05	245.24	0.006521	1.97	29.18	66.51	0.71
Reach1	1011.241 34.01-01	100-year	27.14	244.29	245.20	245.09	245.30	0.006505	2.05	33.03	72.50	0.71
Reach1	1011.241 34.01-01	Regional	93.13	244.29	245.89	245.53	246.01	0.004653	2.59	91.96	95.24	0.67
Reach1	1011.186 35.13-33	2-year	0.77	243.83	243.96	243.95	244.00	0.042719	1.11	1.00	11.20	1.24
Reach1	1011.186 35.13-33	5-year	1.49	243.83	244.02	244.01	244.07	0.034629	1.29	1.75	15.46	1.19
Reach1	1011.186 35.13-33	10-year	14.22	243.83	244.46	244.40	244.61	0.014009	2.27	12.75	40.41	0.98
Reach1	1011.186 35.13-33	25-year	19.23	243.83	244.55	244.52	244.71	0.013155	2.44	16.70	43.23	0.97
Reach1	1011.186 35.13-33	50-year	23.31	243.83	244.61	244.58	244.79	0.013068	2.58	19.37	43.93	0.98
Reach1	1011.186 35.13-33	100-year	27.14	243.83	244.67	244.62	244.85	0.012922	2.70	21.76	44.48	0.99
Reach1	1011.186 35.13-33	Regional	93.13	243.83	245.40	245.18	245.68	0.009503	3.63	56.22	48.89	0.95
Reach1	1010.985 35.13-32	2-year	0.77	241.92	242.25	242.15	242.27	0.003643	0.61	1.58	12.31	0.42
Reach1	1010.985 35.13-32	5-year	1.49	241.92	242.33	242.24	242.36	0.003835	0.78	3.08	24.00	0.46
Reach1	1010.985 35.13-32	10-year	14.22	241.92	242.77		242.86	0.006128	1.81	16.45	34.26	0.67
Reach1	1010.985 35.13-32	25-year	19.23	241.92	242.87		242.98	0.006356	2.01	20.05	35.02	0.70
Reach1	1010.985 35.13-32	50-year	23.31	241.92	242.96		243.08	0.006275	2.13	22.99	35.63	0.71
Reach1	1010.985 35.13-32	100-year	27.14	241.92	243.03		243.16	0.006227	2.23	25.59	36.15	0.72
Reach1	1010.985 35.13-32	Regional	93.13	241.92	243.80		244.08	0.007414	3.57	64.72	64.03	0.86
Reach1	1010.760 35.13-31	2-year	0.77	240.25	240.49	240.49	240.55	0.025162	1.12	0.68	5.52	1.02
Reach1	1010.760 35.13-31	5-year	1.49	240.25	240.56	240.56	240.65	0.022228	1.32	1.13	6.46	1.01
Reach1	1010.760 35.13-31	10-year	14.22	240.25	241.16	241.16	241.35	0.008270	2.11	11.74	38.75	0.78
Reach1	1010.760 35.13-31	25-year	19.23	240.25	241.26	241.26	241.47	0.008138	2.29	15.84	40.76	0.80
Reach1	1010.760 35.13-31	50-year	23.31	240.25	241.33	241.33	241.55	0.008482	2.45	18.43	41.52	0.82
Reach1	1010.760 35.13-31	100-year	27.14	240.25	241.38	241.38	241.62	0.008754	2.58	20.67	42.16	0.84
Reach1	1010.760 35.13-31	Regional	93.13	240.25	242.11	242.11	242.48	0.008329	3.67	62.49	75.11	0.90
Reach1	1010.657 35.13-30	2-year	0.77	239.75	239.95		239.96	0.001937	0.38	2.13	14.17	0.30
Reach1	1010.657 35.13-30	5-year	1.49	239.75	240.03		240.04	0.002037	0.48	3.33	16.29	0.32
Reach1	1010.657 35.13-30	10-year	14.22	239.75	240.42		240.49	0.004064	1.28	18.68	54.67	0.53
Reach1	1010.657 35.13-30	25-year	19.23	239.75	240.50		240.58	0.004504	1.46	22.80	55.95	0.57
Reach1	1010.657 35.13-30	50-year	23.31	239.75	240.55		240.65	0.004768	1.58	25.87	56.88	0.59
Reach1	1010.657 35.13-30	100-year	27.14	239.75	240.61		240.71	0.004612	1.64	29.35	57.59	0.59
Reach1	1010.657 35.13-30	Regional	93.13	239.75	241.11		241.38	0.007407	2.89	59.23	61.71	0.81
Reach1	1010.471 35.13-29	2-year	0.77	238.92	239.03	239.03	239.06	0.026636	0.85	0.96	12.95	0.97
Reach1	1010.471 35.13-29	5-year	1.49	238.92	239.07	239.07	239.12	0.024801	1.05	1.53	14.34	1.00
Reach1	1010.471 35.13-29	10-year	14.22	238.92	239.51		239.60	0.005761	1.41	16.19	48.18	0.62
Reach1	1010.471 35.13-29	25-year	19.23	238.92	239.63		239.71	0.004861	1.47	22.30	69.83	0.59
Reach1	1010.471 35.13-29	50-year	23.31	238.92	239.70		239.78	0.004496	1.52	27.96	83.53	0.58
Reach1	1010.471 35.13-29	100-year	27.14	238.92	239.75		239.85	0.004678	1.63	32.37	87.79	0.60
Reach1	1010.471 35.13-29	Regional	93.13	238.92	240.95		240.99	0.000756	1.23	176.22	138.70	0.28
Reach1	1010.375 35.13-28	2-year	0.77	238.10	238.40		238.41	0.002977	0.50	1.55	8.61	0.37
Reach1	1010.375 35.13-28	5-year	1.49	238.10	238.51		238.53	0.002473	0.58	2.55	9.60	0.36
Reach1	1010.375 35.13-28	10-year	14.22	238.10	239.19		239.26	0.002327	1.23	18.50	71.30	0.42
Reach1	1010.375 35.13-28	25-year	19.23	238.10	239.27		239.36	0.002815	1.44	25.05	89.52	0.47
Reach1	1010.375 35.13-28	50-year	23.31	238.10	239.33		239.43	0.003106	1.57	30.52	105.92	0.50
Reach1	1010.375 35.13-28	100-year	27.14	238.10	239.40		239.50	0.002901	1.59	39.06	124.26	0.49
Reach1	1010.375 35.13-28	Regional	93.13	238.10	240.93		240.94	0.000207	0.77	324.42	207.48	0.15
Reach1	1010.272 35.13-27	2-year	0.77	237.76	238.11		238.12	0.002720	0.56	1.38	5.96	0.37
Reach1	1010.272 35.13-27	5-year	1.49	237.76	238.23		238.25	0.002926	0.69	2.16	7.17	0.40
Reach1	1010.272 35.13-27	10-year	14.22	237.76	238.89	238.66	238.98	0.003134	1.45	19.23	103.47	0.50
Reach1	1010.272 35.13-27	25-year	19.23	237.76	239.06		239.11	0.001891	1.27	44.42	164.30	0.40
Reach1	1010.272 35.13-27	50-year	23.31	237.76	239.19		239.22	0.001190	1.08	65.75	170.42	0.32
Reach1	1010.272 35.13-27	100-year	27.14	237.76	239.30		239.33	0.000860	0.98	86.14	182.48	0.28
Reach1	1010.272 35.13-27	Regional	93.13	237.76	240.92		240.93	0.000094	0.56	463.75	255.99	0.11
Reach1	1010.177 35.13-26	2-year	0.77	237.68	238.04		238.04	0.000407	0.23	3.32	12.97	0.15
Reach1	1010.177 35.13-26	5-year	1.49	237.68	238.14		238.15	0.000522	0.31	4.76	14.25	0.17
Reach1	1010.177 35.13-26	10-year	14.22	237.68	238.76		238.80	0.001164	0.90	21.10	41.71	0.30
Reach1	1010.177 35.13-26	25-year	19.23	237.68	238.94		238.98	0.001042	0.97	29.48	48.70	0.30
Reach1	1010.177 35.13-26	50-year	23.31	237.68	239.08		239.12	0.000935	0.99	36.34	50.54	0.29
Reach1	1010.177 35.13-26	100-year	27.14	237.68	239.20		239.24	0.000850	1.01	42.70	51.32	0.28

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1010.177 35.13-26	Regional	93.13	237.68	240.86		240.91	0.000387	1.17	159.20	101.49	0.21
Reach1	1010.003 35.13-25	2-year	0.77	237.68	237.90		237.91	0.001972	0.38	2.00	12.03	0.30
Reach1	1010.003 35.13-25	5-year	1.49	237.68	237.97		237.98	0.002471	0.51	3.46	27.31	0.35
Reach1	1010.003 35.13-25	10-year	14.22	237.68	238.66		238.67	0.000565	0.63	44.29	72.91	0.21
Reach1	1010.003 35.13-25	25-year	19.23	237.68	238.86		238.87	0.000471	0.66	60.88	90.87	0.20
Reach1	1010.003 35.13-25	50-year	23.31	237.68	239.01		239.02	0.000400	0.66	76.67	122.57	0.19
Reach1	1010.003 35.13-25	100-year	27.14	237.68	239.15		239.16	0.000346	0.66	94.54	134.28	0.18
Reach1	1010.003 35.13-25	Regional	93.13	237.68	240.86		240.87	0.000111	0.64	349.21	162.03	0.12
Reach1	1009.993 35.13-24	2-year	0.77	237.69	237.88	237.81	237.89	0.001980	0.32	2.40	21.75	0.29
Reach1	1009.993 35.13-24	5-year	1.49	237.69	237.95	237.84	237.96	0.001887	0.41	3.65	24.16	0.30
Reach1	1009.993 35.13-24	10-year	14.22	237.69	238.62	238.14	238.65	0.001060	0.84	17.45	76.45	0.29
Reach1	1009.993 35.13-24	25-year	19.23	237.69	238.81	238.23	238.86	0.000976	0.92	21.52	96.16	0.29
Reach1	1009.993 35.13-24	50-year	23.31	237.69	238.96	238.29	239.01	0.000925	0.98	24.60	107.69	0.29
Reach1	1009.993 35.13-24	100-year	27.14	237.69	239.09	238.34	239.14	0.000889	1.03	27.32	117.36	0.28
Reach1	1009.993 35.13-24	Regional	93.13	237.69	240.86	239.07	240.87	0.000102	0.61	287.30	158.53	0.11
Reach1	1009.981 x-72 (35.13-23)		Bridge									
Reach1	1009.962 35.13-22	2-year	0.77	237.16	237.51	237.37	237.52	0.001985	0.44	1.74	8.42	0.31
Reach1	1009.962 35.13-22	5-year	1.49	237.16	237.59	237.44	237.61	0.002857	0.61	2.46	9.73	0.39
Reach1	1009.962 35.13-22	10-year	14.22	237.16	237.93	237.93	238.19	0.014076	2.29	6.95	37.56	0.98
Reach1	1009.962 35.13-22	25-year	19.23	237.16	238.07	238.07	238.35	0.011485	2.40	9.65	45.33	0.92
Reach1	1009.962 35.13-22	50-year	23.31	237.16	238.15	238.15	238.46	0.011278	2.56	11.27	48.87	0.93
Reach1	1009.962 35.13-22	100-year	27.14	237.16	238.22	238.22	238.56	0.010885	2.68	12.82	51.15	0.92
Reach1	1009.962 35.13-22	Regional	93.13	237.16	239.07	239.07	239.79	0.010253	4.11	30.50	85.23	1.01
Reach1	1009.950 35.13-21	2-year	2.66	237.09	237.38		237.43	0.010428	1.03	2.59	12.37	0.72
Reach1	1009.950 35.13-21	5-year	4.04	237.09	237.46		237.52	0.008864	1.13	3.58	13.08	0.69
Reach1	1009.950 35.13-21	10-year	15.06	237.09	237.82	237.70	237.96	0.006955	1.72	10.38	33.26	0.70
Reach1	1009.950 35.13-21	25-year	20.30	237.09	237.94	237.83	238.10	0.006268	1.84	14.96	40.41	0.68
Reach1	1009.950 35.13-21	50-year	24.55	237.09	238.03	237.92	238.20	0.005619	1.89	18.97	43.76	0.66
Reach1	1009.950 35.13-21	100-year	28.75	237.09	238.12		238.28	0.005076	1.92	22.95	45.99	0.64
Reach1	1009.950 35.13-21	Regional	99.69	237.09	239.12		239.30	0.002884	2.36	84.18	87.24	0.54
Reach1	1009.917 35.13-20	2-year	2.66	236.79	237.29		237.30	0.001782	0.54	4.94	16.46	0.31
Reach1	1009.917 35.13-20	5-year	4.04	236.79	237.37		237.39	0.001972	0.65	6.25	17.10	0.34
Reach1	1009.917 35.13-20	10-year	15.06	236.79	237.73		237.80	0.002865	1.16	13.06	20.57	0.45
Reach1	1009.917 35.13-20	25-year	20.30	236.79	237.85		237.94	0.002971	1.32	15.63	22.09	0.48
Reach1	1009.917 35.13-20	50-year	24.55	236.79	237.94		238.04	0.002995	1.42	17.71	23.51	0.49
Reach1	1009.917 35.13-20	100-year	28.75	236.79	238.03		238.14	0.002997	1.51	19.81	26.02	0.49
Reach1	1009.917 35.13-20	Regional	99.69	236.79	238.99		239.21	0.002549	2.22	72.31	77.13	0.51
Reach1	1009.775 35.13-19	2-year	2.66	236.42	236.88		236.92	0.004786	0.92	5.05	33.76	0.52
Reach1	1009.775 35.13-19	5-year	4.04	236.42	236.95		236.99	0.004333	1.01	7.71	38.10	0.51
Reach1	1009.775 35.13-19	10-year	15.06	236.42	237.34		237.39	0.002913	1.30	23.69	43.40	0.47
Reach1	1009.775 35.13-19	25-year	20.30	236.42	237.50		237.55	0.002487	1.36	30.67	44.75	0.45
Reach1	1009.775 35.13-19	50-year	24.55	236.42	237.61		237.66	0.002372	1.43	35.46	45.68	0.45
Reach1	1009.775 35.13-19	100-year	28.75	236.42	237.72		237.77	0.002174	1.46	40.65	46.75	0.43
Reach1	1009.775 35.13-19	Regional	99.69	236.42	238.73		238.85	0.002274	2.27	94.15	58.21	0.49
Reach1	1009.681 35.13-18	2-year	2.66	235.95	236.52		236.56	0.003093	0.95	5.14	24.07	0.44
Reach1	1009.681 35.13-18	5-year	4.04	235.95	236.62		236.66	0.002944	1.05	7.57	26.46	0.44
Reach1	1009.681 35.13-18	10-year	15.06	235.95	237.13		237.17	0.001832	1.27	28.48	45.69	0.39
Reach1	1009.681 35.13-18	25-year	20.30	235.95	237.31		237.35	0.001782	1.38	37.54	55.53	0.40
Reach1	1009.681 35.13-18	50-year	24.55	235.95	237.43		237.47	0.001640	1.41	44.38	59.14	0.39
Reach1	1009.681 35.13-18	100-year	28.75	235.95	237.54		237.59	0.001698	1.52	51.59	67.98	0.40
Reach1	1009.681 35.13-18	Regional	99.69	235.95	238.60		238.67	0.001416	1.98	130.03	78.26	0.40
Reach1	1009.607 35.13-17	2-year	2.66	235.74	236.24		236.29	0.004568	0.91	2.95	9.67	0.51
Reach1	1009.607 35.13-17	5-year	4.04	235.74	236.34		236.40	0.004511	1.07	3.89	10.50	0.53
Reach1	1009.607 35.13-17	10-year	15.06	235.74	236.82	236.59	236.96	0.004398	1.76	10.92	20.17	0.59
Reach1	1009.607 35.13-17	25-year	20.30	235.74	236.95	236.74	237.14	0.004665	1.99	13.87	22.64	0.62
Reach1	1009.607 35.13-17	50-year	24.55	235.74	237.05	236.85	237.26	0.004867	2.16	16.17	25.61	0.65
Reach1	1009.607 35.13-17	100-year	28.75	235.74	237.14	236.93	237.37	0.004997	2.30	18.64	30.67	0.66
Reach1	1009.607 35.13-17	Regional	99.69	235.74	237.94	237.88	238.43	0.006747	3.74	55.13	55.86	0.84
Reach1	1009.462 35.13-16	2-year	2.66	235.12	235.55		235.60	0.004926	0.93	2.87	8.97	0.52
Reach1	1009.462 35.13-16	5-year	4.04	235.12	235.65		235.71	0.004954	1.07	3.77	9.64	0.54
Reach1	1009.462 35.13-16	10-year	15.06	235.12	236.01	235.94	236.18	0.006660	1.90	11.39	36.27	0.70
Reach1	1009.462 35.13-16	25-year	20.30	235.12	236.11	236.07	236.31	0.007016	2.13	15.17	39.08	0.74
Reach1	1009.462 35.13-16	50-year	24.55	235.12	236.18	236.15	236.40	0.007294	2.28	18.03	42.02	0.76
Reach1	1009.462 35.13-16	100-year	28.75	235.12	236.24	236.21	236.48	0.007653	2.43	20.43	43.11	0.79
Reach1	1009.462 35.13-16	Regional	99.69	235.12	236.96	236.90	237.35	0.007711	3.53	59.68	62.33	0.87
Reach1	1009.371 35.13-15	2-year	2.66	234.81	235.27	235.07	235.29	0.002369	0.67	3.95	11.61	0.37
Reach1	1009.371 35.13-15	5-year	4.04	234.81	235.38	235.14	235.41	0.002239	0.75	5.87	26.12	0.37
Reach1	1009.371 35.13-15	10-year	15.06	234.81	235.72	235.52	235.78	0.002753	1.22	21.80	60.81	0.45
Reach1	1009.371 35.13-15	25-year	20.30	234.81	235.81	235.62	235.88	0.002956	1.37	27.33	62.04	0.48
Reach1	1009.371 35.13-15	50-year	24.55	234.81	235.87	235.66	235.95	0.003040	1.46	31.53	62.96	0.49
Reach1	1009.371 35.13-15	100-year	28.75	234.81	235.95	235.74	236.03	0.002877	1.50	36.46	63.90	0.48
Reach1	1009.371 35.13-15	Regional	99.69	234.81	236.73	236.25	236.87	0.002843	2.21	90.41	75.89	0.53

HEC-RAS Plan: ModEx_Feb2024_6hr_NoBerms River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1009.169 35.13-14	2-year	2.66	234.16	234.72	234.57	234.75	0.003188	0.83	5.63	45.38	0.43
Reach1	1009.169 35.13-14	5-year	4.04	234.16	234.75		234.80	0.004545	1.05	7.30	45.88	0.52
Reach1	1009.169 35.13-14	10-year	15.06	234.16	235.02		235.10	0.005113	1.57	20.86	51.96	0.61
Reach1	1009.169 35.13-14	25-year	20.30	234.16	235.14		235.21	0.004640	1.65	26.65	52.66	0.59
Reach1	1009.169 35.13-14	50-year	24.55	234.16	235.22		235.29	0.004418	1.72	30.87	53.05	0.59
Reach1	1009.169 35.13-14	100-year	28.75	234.16	235.24		235.34	0.005363	1.93	32.17	53.16	0.65
Reach1	1009.169 35.13-14	Regional	99.69	234.16	235.80		236.06	0.008609	3.37	62.69	55.77	0.89
Reach1	1009.059 35.13-13	2-year	2.66	233.50	233.94	233.94	234.09	0.015282	1.75	1.91	9.21	0.94
Reach1	1009.059 35.13-13	5-year	4.04	233.50	234.07	234.07	234.17	0.007867	1.56	4.05	21.91	0.71
Reach1	1009.059 35.13-13	10-year	15.06	233.50	234.33	234.33	234.45	0.008450	2.14	13.25	44.46	0.79
Reach1	1009.059 35.13-13	25-year	20.30	233.50	234.37	234.37	234.53	0.010991	2.52	15.01	44.98	0.91
Reach1	1009.059 35.13-13	50-year	24.55	233.50	234.40	234.40	234.60	0.012701	2.79	16.62	46.90	0.99
Reach1	1009.059 35.13-13	100-year	28.75	233.50	234.49	234.49	234.65	0.009557	2.60	21.18	52.38	0.87
Reach1	1009.059 35.13-13	Regional	99.69	233.50	235.00		235.24	0.008817	3.36	54.12	82.00	0.90
Reach1	1008.977 35.13-12	2-year	2.66	232.58	233.18	232.88	233.20	0.001129	0.64	7.10	18.73	0.28
Reach1	1008.977 35.13-12	5-year	4.04	232.58	233.29	232.95	233.31	0.001264	0.77	9.34	20.67	0.30
Reach1	1008.977 35.13-12	10-year	15.06	232.58	233.70	233.32	233.77	0.002629	1.52	24.82	52.66	0.47
Reach1	1008.977 35.13-12	25-year	20.30	232.58	233.83	233.50	233.90	0.002640	1.65	32.35	63.59	0.48
Reach1	1008.977 35.13-12	50-year	24.55	232.58	233.94	233.55	234.01	0.002511	1.70	39.90	74.57	0.48
Reach1	1008.977 35.13-12	100-year	28.75	232.58	234.02	233.75	234.10	0.002461	1.76	46.17	77.95	0.48
Reach1	1008.977 35.13-12	Regional	99.69	232.58	234.57	234.34	234.74	0.004779	3.06	93.29	93.92	0.70
Reach1	1008.763 35.13-11	2-year	2.66	232.04	232.45	232.45	232.57	0.019276	1.52	1.76	7.38	0.99
Reach1	1008.763 35.13-11	5-year	4.04	232.04	232.58	232.54	232.68	0.013549	1.44	2.85	15.40	0.86
Reach1	1008.763 35.13-11	10-year	15.06	232.04	233.08	232.88	233.15	0.003428	1.37	18.05	79.10	0.51
Reach1	1008.763 35.13-11	25-year	20.30	232.04	233.19	232.96	233.28	0.003566	1.54	22.45	92.46	0.53
Reach1	1008.763 35.13-11	50-year	24.55	232.04	233.22	233.03	233.34	0.004504	1.77	23.73	94.35	0.60
Reach1	1008.763 35.13-11	100-year	28.75	232.04	233.28	233.07	233.41	0.004731	1.89	26.24	98.89	0.62
Reach1	1008.763 35.13-11	Regional	99.69	232.04	233.86	233.62	233.96	0.003162	2.12	112.68	137.77	0.55
Reach1	1008.567 35.13-10	2-year	2.66	230.88	231.50		231.53	0.002227	0.92	4.43	10.60	0.39
Reach1	1008.567 35.13-10	5-year	4.04	230.88	231.61		231.66	0.002751	1.15	5.60	12.33	0.45
Reach1	1008.567 35.13-10	10-year	15.06	230.88	231.90	231.74	232.15	0.009053	2.65	12.49	34.94	0.86
Reach1	1008.567 35.13-10	25-year	20.30	230.88	232.03	232.03	232.28	0.008584	2.81	17.35	40.31	0.86
Reach1	1008.567 35.13-10	50-year	24.55	230.88	232.28	232.28	232.45	0.005069	2.48	32.95	92.79	0.68
Reach1	1008.567 35.13-10	100-year	28.75	230.88	232.34	232.34	232.50	0.005122	2.56	38.27	95.81	0.69
Reach1	1008.567 35.13-10	Regional	99.69	230.88	232.74	232.74	233.03	0.009457	4.12	79.92	105.83	0.98
Reach1	1008.456 35.13-09	2-year	2.66	230.68	231.15	231.06	231.19	0.005115	0.94	3.97	25.63	0.53
Reach1	1008.456 35.13-09	5-year	4.04	230.68	231.23	231.13	231.28	0.004693	1.01	6.83	42.04	0.53
Reach1	1008.456 35.13-09	10-year	15.06	230.68	231.56	231.42	231.60	0.002925	1.21	29.52	87.79	0.46
Reach1	1008.456 35.13-09	25-year	20.30	230.68	231.65	231.48	231.69	0.002914	1.30	37.53	93.23	0.47
Reach1	1008.456 35.13-09	50-year	24.55	230.68	231.72	231.52	231.76	0.002851	1.36	43.80	96.54	0.47
Reach1	1008.456 35.13-09	100-year	28.75	230.68	231.77	231.55	231.81	0.002953	1.44	48.74	99.58	0.48
Reach1	1008.456 35.13-09	Regional	99.69	230.68	232.34	231.95	232.43	0.003510	2.18	111.47	115.74	0.57
Reach1	1008.365 35.13-08	2-year	2.66	230.30	230.76	230.61	230.80	0.003682	0.87	3.14	10.72	0.46
Reach1	1008.365 35.13-08	5-year	4.04	230.30	230.87	230.69	230.92	0.003516	1.00	4.56	19.30	0.47
Reach1	1008.365 35.13-08	10-year	15.06	230.30	231.20	231.11	231.30	0.004521	1.63	19.91	69.90	0.59
Reach1	1008.365 35.13-08	25-year	20.30	230.30	231.29	231.22	231.40	0.004594	1.77	26.89	91.45	0.60
Reach1	1008.365 35.13-08	50-year	24.55	230.30	231.35	231.28	231.46	0.004849	1.89	32.57	104.84	0.62
Reach1	1008.365 35.13-08	100-year	28.75	230.30	231.41	231.35	231.52	0.004519	1.92	39.71	107.37	0.61
Reach1	1008.365 35.13-08	Regional	99.69	230.30	231.79	231.74	232.03	0.008440	3.24	82.03	114.97	0.88
Reach1	1008.200 35.13-07	2-year	2.66	229.50	229.84	229.78	229.90	0.008881	1.20	2.92	12.34	0.70
Reach1	1008.200 35.13-07	5-year	4.04	229.50	229.90	229.85	230.00	0.010134	1.47	3.77	13.51	0.77
Reach1	1008.200 35.13-07	10-year	15.06	229.50	230.21	230.21	230.33	0.008292	1.99	19.80	79.58	0.77
Reach1	1008.200 35.13-07	25-year	20.30	229.50	230.29	230.29	230.41	0.008449	2.16	26.21	90.15	0.80
Reach1	1008.200 35.13-07	50-year	24.55	229.50	230.35	230.35	230.47	0.007988	2.22	32.72	107.44	0.78
Reach1	1008.200 35.13-07	100-year	28.75	229.50	230.38	230.37	230.52	0.009249	2.43	35.23	113.32	0.85
Reach1	1008.200 35.13-07	Regional	99.69	229.50	231.02	230.72	231.09	0.003949	2.32	125.07	152.22	0.61
Reach1	1008.094 35.13-06	2-year	2.76	228.90	229.43	229.26	229.45	0.002564	0.73	8.58	55.26	0.39
Reach1	1008.094 35.13-06	5-year	4.18	228.90	229.49	229.33	229.51	0.002636	0.82	11.96	57.89	0.40
Reach1	1008.094 35.13-06	10-year	15.58	228.90	229.78	229.60	229.81	0.002754	1.17	32.82	76.87	0.45
Reach1	1008.094 35.13-06	25-year	21.01	228.90	229.87	229.65	229.90	0.002780	1.28	40.05	79.13	0.46
Reach1	1008.094 35.13-06	50-year	25.41	228.90	229.93	229.68	229.97	0.002849	1.36	45.18	81.23	0.47
Reach1	1008.094 35.13-06	100-year	29.75	228.90	229.99	229.72	230.03	0.002877	1.43	50.20	85.28	0.47
Reach1	1008.094 35.13-06	Regional	103.18	228.90	230.70	230.12	230.77	0.002937	2.10	126.78	148.14	0.53
Reach1	1007.822 35.13-05	2-year	2.76	227.91	228.50		228.51	0.004858	0.50	7.16	35.55	0.24
Reach1	1007.822 35.13-05	5-year	4.18	227.91	228.58		228.59	0.004477	0.53	10.68	50.36	0.24
Reach1	1007.822 35.13-05	10-year	15.58	227.91	228.88		228.89	0.004157	0.70	30.65	71.67	0.25
Reach1	1007.822 35.13-05	25-year	21.01	227.91	228.97		228.99	0.004122	0.74	37.13	72.32	0.25
Reach1	1007.822 35.13-05	50-year	25.41	227.91	229.04		229.06	0.003872	0.76	42.64	72.87	0.25
Reach1	1007.822 35.13-05	100-year	29.75	227.91	229.11		229.13	0.003837	0.79	47.20	73.39	0.25
Reach1	1007.822 35.13-05	Regional	103.18	227.91	229.78		229.83	0.004111	1.14	105.66	127.56	0.28
Reach1	1007.614 35.13-04	2-year	2.76	226.62	227.16		227.18	0.008874	0.59	5.02	16.20	0.32
Reach1	1007.614 35.13-04	5-year	4.18	226.62	227.24		227.26	0.009907	0.71	6.57	23.74	0.34
Reach1	1007.614 35.13-04	10-year	15.58	226.62	227.74		227.78	0.007191	1.01	20.86	41.09	0.33
Reach1	1007.614 35.13-04	25-year	21.01	226.62	227.89		227.93	0.006432	1.06	27.49	47.09	0.32

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms River: Salt Creek Reach: Reach1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1012.797 34.03-12	2-year	0.93	251.01	251.49	251.27	251.50	0.001996	0.58	1.60	5.11	0.33
Reach1	1012.797 34.03-12	5-year	1.64	251.01	251.62	251.36	251.64	0.002332	0.70	2.42	9.93	0.37
Reach1	1012.797 34.03-12	10-year	13.47	251.01	252.16		252.21	0.002303	1.28	27.83	77.01	0.42
Reach1	1012.797 34.03-12	25-year	17.68	251.01	252.13		252.23	0.004931	1.82	25.43	76.82	0.62
Reach1	1012.797 34.03-12	50-year	20.98	251.01	252.18		252.28	0.004987	1.90	29.15	77.11	0.63
Reach1	1012.797 34.03-12	100-year	24.12	251.01	252.30		252.37	0.003319	1.67	38.00	77.79	0.52
Reach1	1012.797 34.03-12	Regional	78.46	251.01	253.01		253.08	0.002495	2.05	95.00	82.40	0.49
Reach1	1012.596 34.03-11	2-year	0.93	250.26	250.50	250.49	250.57	0.019606	1.22	0.76	4.43	0.94
Reach1	1012.596 34.03-11	5-year	1.64	250.26	250.60		250.69	0.013971	1.29	1.27	5.32	0.84
Reach1	1012.596 34.03-11	10-year	13.47	250.26	251.32	251.17	251.51	0.006111	2.03	11.29	51.20	0.69
Reach1	1012.596 34.03-11	25-year	17.68	250.26	251.70		251.75	0.001470	1.26	34.76	71.73	0.36
Reach1	1012.596 34.03-11	50-year	20.98	250.26	251.93		251.96	0.000789	1.03	51.48	73.99	0.27
Reach1	1012.596 34.03-11	100-year	24.12	250.26	252.13		252.15	0.000523	0.92	66.60	75.45	0.22
Reach1	1012.596 34.03-11	Regional	78.46	250.26	252.67		252.74	0.001444	1.83	109.38	84.56	0.39
Reach1	1012.484 34.03-10	2-year	0.93	249.90	250.23	250.04	250.24	0.001068	0.32	2.88	10.70	0.20
Reach1	1012.484 34.03-10	5-year	1.64	249.90	250.35	250.09	250.36	0.001113	0.39	4.22	11.49	0.20
Reach1	1012.484 34.03-10	10-year	13.47	249.90	251.40	250.56	251.40	0.000149	0.35	78.93	101.58	0.09
Reach1	1012.484 34.03-10	25-year	17.68	249.90	251.71	250.69	251.71	0.000098	0.32	110.56	105.93	0.08
Reach1	1012.484 34.03-10	50-year	20.98	249.90	251.93	250.74	251.93	0.000077	0.31	134.27	108.27	0.07
Reach1	1012.484 34.03-10	100-year	24.12	249.90	252.13	250.81	252.13	0.000065	0.30	156.18	110.29	0.07
Reach1	1012.484 34.03-10	Regional	78.46	249.90	252.66	251.16	252.67	0.000264	0.70	216.07	116.88	0.14
Reach1	1012.476 34.03-09	2-year	0.93	249.87	250.23	250.03	250.23	0.000832	0.35	2.67	9.72	0.21
Reach1	1012.476 34.03-09	5-year	1.64	249.87	250.35	250.08	250.35	0.000832	0.42	3.88	10.55	0.22
Reach1	1012.476 34.03-09	10-year	13.47	249.87	251.34	250.53	251.38	0.000690	0.87	15.44	95.85	0.25
Reach1	1012.476 34.03-09	25-year	17.68	249.87	251.64	250.64	251.68	0.000593	0.93	19.02	98.25	0.24
Reach1	1012.476 34.03-09	50-year	20.98	249.87	251.85	250.72	251.90	0.000544	0.97	21.63	99.11	0.23
Reach1	1012.476 34.03-09	100-year	24.12	249.87	252.05	250.80	252.10	0.000510	1.01	23.99	99.87	0.23
Reach1	1012.476 34.03-09	Regional	78.46	249.87	252.64	251.69	252.66	0.000262	0.85	208.99	148.07	0.17
Reach1	1012.466 x-73 (34.03-08)		Culvert									
Reach1	1012.451 34.03-07	2-year	0.93	249.87	250.21	250.01	250.22	0.001455	0.33	2.77	10.21	0.21
Reach1	1012.451 34.03-07	5-year	1.64	249.87	250.32	250.06	250.33	0.001564	0.42	3.88	11.08	0.22
Reach1	1012.451 34.03-07	10-year	13.47	249.87	250.97	250.50	251.04	0.003219	1.21	11.83	53.64	0.38
Reach1	1012.451 34.03-07	25-year	17.68	249.87	251.00	250.61	251.12	0.004902	1.53	12.30	54.83	0.48
Reach1	1012.451 34.03-07	50-year	20.98	249.87	251.00	250.70	251.16	0.007073	1.83	12.21	54.59	0.57
Reach1	1012.451 34.03-07	100-year	24.12	249.87	251.05	250.77	251.24	0.007901	2.00	12.88	57.28	0.61
Reach1	1012.451 34.03-07	Regional	78.46	249.87	251.66	251.66	252.46	0.018082	4.06	20.78	90.33	0.99
Reach1	1012.447 34.03-06	2-year	1.10	249.87	250.18		250.20	0.003172	0.61	1.80	7.66	0.40
Reach1	1012.447 34.03-06	5-year	1.94	249.87	250.28		250.30	0.003388	0.76	2.58	9.14	0.43
Reach1	1012.447 34.03-06	10-year	15.99	249.87	250.81	250.73	250.97	0.005775	1.88	14.70	64.35	0.67
Reach1	1012.447 34.03-06	25-year	20.99	249.87	250.90	250.88	251.07	0.005716	2.01	20.64	65.44	0.67
Reach1	1012.447 34.03-06	50-year	24.90	249.87	250.97	250.94	251.13	0.005528	2.07	25.02	66.20	0.67
Reach1	1012.447 34.03-06	100-year	28.63	249.87	251.03	250.98	251.19	0.005405	2.13	28.82	66.97	0.67
Reach1	1012.447 34.03-06	Regional	93.13	249.87	251.69		251.91	0.005162	2.89	79.00	92.62	0.71
Reach1	1012.394 34.03-05	2-year	1.10	249.54	249.76	249.76	249.83	0.023360	1.20	0.92	6.37	1.01
Reach1	1012.394 34.03-05	5-year	1.94	249.54	249.83	249.83	249.93	0.021468	1.37	1.42	7.60	1.01
Reach1	1012.394 34.03-05	10-year	15.99	249.54	250.46	250.46	250.63	0.006929	1.99	14.17	56.11	0.72
Reach1	1012.394 34.03-05	25-year	20.99	249.54	250.54	250.54	250.73	0.007036	2.15	18.95	57.64	0.74
Reach1	1012.394 34.03-05	50-year	24.90	249.54	250.60	250.60	250.80	0.007281	2.27	22.02	58.53	0.76
Reach1	1012.394 34.03-05	100-year	28.63	249.54	250.64	250.64	250.85	0.007479	2.38	24.72	59.13	0.78
Reach1	1012.394 34.03-05	Regional	93.13	249.54	251.16	251.16	251.53	0.009689	3.62	58.50	71.55	0.95
Reach1	1012.190 34.03-04	2-year	1.10	248.52	248.77		248.77	0.002019	0.36	3.06	16.03	0.26
Reach1	1012.190 34.03-04	5-year	1.94	248.52	248.86		248.87	0.001812	0.42	4.58	17.03	0.26
Reach1	1012.190 34.03-04	10-year	15.99	248.52	249.38		249.41	0.002376	0.93	31.77	119.15	0.33
Reach1	1012.190 34.03-04	25-year	20.99	248.52	249.46		249.50	0.002327	0.98	42.09	125.93	0.33
Reach1	1012.190 34.03-04	50-year	24.90	248.52	249.52		249.55	0.002296	1.02	49.10	126.66	0.34
Reach1	1012.190 34.03-04	100-year	28.63	248.52	249.57		249.60	0.002272	1.05	55.35	127.82	0.34
Reach1	1012.190 34.03-04	Regional	93.13	248.52	250.22		250.26	0.001770	1.28	150.46	160.98	0.32
Reach1	1011.995 34.03-03	2-year	1.10	247.86	248.21		248.23	0.004048	0.71	1.55	6.30	0.46
Reach1	1011.995 34.03-03	5-year	1.94	247.86	248.33		248.37	0.003879	0.79	2.51	10.50	0.46
Reach1	1011.995 34.03-03	10-year	15.99	247.86	248.89		248.95	0.002731	1.34	28.04	79.49	0.46
Reach1	1011.995 34.03-03	25-year	20.99	247.86	249.01		249.07	0.002476	1.39	37.99	86.81	0.45
Reach1	1011.995 34.03-03	50-year	24.90	247.86	249.08		249.14	0.002365	1.42	44.43	89.72	0.44
Reach1	1011.995 34.03-03	100-year	28.63	247.86	249.16		249.21	0.002205	1.43	50.83	91.38	0.43
Reach1	1011.995 34.03-03	Regional	93.13	247.86	249.86		249.93	0.002110	1.94	121.48	107.30	0.46
Reach1	1011.786 34.03-02	2-year	1.10	246.99	247.44		247.46	0.003355	0.66	1.66	6.47	0.42
Reach1	1011.786 34.03-02	5-year	1.94	246.99	247.57		247.59	0.003481	0.76	2.57	8.46	0.44
Reach1	1011.786 34.03-02	10-year	15.99	246.99	248.12	247.96	248.24	0.005042	1.62	13.30	40.42	0.61
Reach1	1011.786 34.03-02	25-year	20.99	246.99	248.18	248.09	248.34	0.006172	1.90	16.06	46.23	0.68
Reach1	1011.786 34.03-02	50-year	24.90	246.99	248.23	248.17	248.42	0.006681	2.06	18.42	47.71	0.72
Reach1	1011.786 34.03-02	100-year	28.63	246.99	248.25	248.23	248.48	0.007832	2.27	19.57	48.28	0.78
Reach1	1011.786 34.03-02	Regional	93.13	246.99	248.83	248.83	249.22	0.008849	3.39	55.29	73.74	0.90
Reach1	1011.625 34.03-01	2-year	1.10	246.31	246.64		246.68	0.007761	0.88	1.32	7.24	0.62
Reach1	1011.625 34.03-01	5-year	1.94	246.31	246.73		246.78	0.008164	1.05	2.03	8.98	0.66

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1011.625 34.03-01	10-year	15.99	246.31	247.26	247.26	247.39	0.006398	1.87	20.13	77.38	0.69
Reach1	1011.625 34.03-01	25-year	20.99	246.31	247.36	247.32	247.47	0.005503	1.88	28.20	106.23	0.65
Reach1	1011.625 34.03-01	50-year	24.90	246.31	247.43		247.54	0.005095	1.92	36.96	116.62	0.64
Reach1	1011.625 34.03-01	100-year	28.63	246.31	247.49		247.58	0.004625	1.90	43.29	119.75	0.61
Reach1	1011.625 34.03-01	Regional	93.13	246.31	248.17		248.23	0.002395	1.94	138.88	158.81	0.48
Reach1	1011.370 34.01-02	2-year	1.10	244.89	245.18		245.20	0.004454	0.64	1.72	8.88	0.46
Reach1	1011.370 34.01-02	5-year	1.94	244.89	245.27		245.30	0.004334	0.76	2.56	10.23	0.48
Reach1	1011.370 34.01-02	10-year	15.99	244.89	245.76	245.64	245.90	0.005963	1.81	12.75	25.46	0.67
Reach1	1011.370 34.01-02	25-year	20.99	244.89	245.85	245.74	246.03	0.006644	2.06	15.09	26.50	0.72
Reach1	1011.370 34.01-02	50-year	24.90	244.89	245.91	245.81	246.13	0.007108	2.24	16.82	27.76	0.75
Reach1	1011.370 34.01-02	100-year	28.63	244.89	245.97	245.86	246.21	0.007576	2.40	18.38	29.24	0.79
Reach1	1011.370 34.01-02	Regional	93.13	244.89	246.64	246.64	247.21	0.010128	3.96	40.77	36.87	0.99
Reach1	1011.241 34.01-01	2-year	1.10	244.29	244.58	244.50	244.61	0.004739	0.73	1.80	12.83	0.49
Reach1	1011.241 34.01-01	5-year	1.94	244.29	244.66	244.57	244.69	0.005117	0.91	3.20	24.15	0.53
Reach1	1011.241 34.01-01	10-year	15.99	244.29	245.03	244.97	245.12	0.006573	1.78	21.96	62.07	0.69
Reach1	1011.241 34.01-01	25-year	20.99	244.29	245.11	245.03	245.20	0.006503	1.91	26.99	64.40	0.70
Reach1	1011.241 34.01-01	50-year	24.90	244.29	245.17	245.06	245.27	0.006439	2.00	30.93	70.65	0.71
Reach1	1011.241 34.01-01	100-year	28.63	244.29	245.22	245.10	245.32	0.006374	2.07	34.67	73.84	0.71
Reach1	1011.241 34.01-01	Regional	93.13	244.29	245.89	245.53	246.01	0.004653	2.59	91.96	95.24	0.67
Reach1	1011.186 35.13-33	2-year	1.10	243.83	243.99	243.98	244.04	0.038076	1.19	1.35	13.23	1.21
Reach1	1011.186 35.13-33	5-year	1.94	243.83	244.05	244.02	244.12	0.033668	1.42	2.27	19.20	1.21
Reach1	1011.186 35.13-33	10-year	15.99	243.83	244.49	244.47	244.65	0.013490	2.32	14.30	42.59	0.97
Reach1	1011.186 35.13-33	25-year	20.99	243.83	244.58	244.55	244.74	0.013168	2.51	17.86	43.54	0.98
Reach1	1011.186 35.13-33	50-year	24.90	243.83	244.63	244.60	244.81	0.013291	2.65	20.22	44.13	0.99
Reach1	1011.186 35.13-33	100-year	28.63	243.83	244.68	244.65	244.87	0.013215	2.76	22.44	44.63	1.00
Reach1	1011.186 35.13-33	Regional	93.13	243.83	245.40	245.18	245.68	0.009503	3.63	56.22	48.89	0.95
Reach1	1010.985 35.13-32	2-year	1.10	241.92	242.29	242.20	242.32	0.003740	0.70	2.23	18.80	0.44
Reach1	1010.985 35.13-32	5-year	1.94	241.92	242.37	242.28	242.40	0.003876	0.85	4.00	26.26	0.47
Reach1	1010.985 35.13-32	10-year	15.99	241.92	242.81		242.91	0.006291	1.89	17.70	34.53	0.69
Reach1	1010.985 35.13-32	25-year	20.99	241.92	242.91		243.03	0.006301	2.06	21.36	35.29	0.70
Reach1	1010.985 35.13-32	50-year	24.90	241.92	242.99		243.11	0.006130	2.16	24.26	35.89	0.71
Reach1	1010.985 35.13-32	100-year	28.63	241.92	243.06		243.19	0.006058	2.25	26.80	36.39	0.71
Reach1	1010.985 35.13-32	Regional	93.13	241.92	243.80		244.08	0.007414	3.57	64.72	64.03	0.86
Reach1	1010.760 35.13-31	2-year	1.10	240.25	240.53	240.53	240.60	0.023556	1.23	0.89	5.98	1.02
Reach1	1010.760 35.13-31	5-year	1.94	240.25	240.60	240.60	240.70	0.021486	1.41	1.38	7.01	1.02
Reach1	1010.760 35.13-31	10-year	15.99	240.25	241.20	241.20	241.40	0.008079	2.17	13.38	40.03	0.78
Reach1	1010.760 35.13-31	25-year	20.99	240.25	241.29	241.29	241.51	0.008312	2.36	16.97	41.09	0.81
Reach1	1010.760 35.13-31	50-year	24.90	240.25	241.35	241.35	241.58	0.008800	2.53	19.19	41.74	0.84
Reach1	1010.760 35.13-31	100-year	28.63	240.25	241.39	241.39	241.65	0.009156	2.67	21.22	42.32	0.86
Reach1	1010.760 35.13-31	Regional	93.13	240.25	242.11	242.11	242.48	0.008329	3.67	62.49	75.11	0.90
Reach1	1010.657 35.13-30	2-year	1.10	239.75	239.99		240.00	0.001971	0.43	2.71	15.12	0.31
Reach1	1010.657 35.13-30	5-year	1.94	239.75	240.07		240.08	0.002064	0.53	4.01	18.05	0.33
Reach1	1010.657 35.13-30	10-year	15.99	239.75	240.45		240.52	0.004245	1.35	20.17	55.14	0.55
Reach1	1010.657 35.13-30	25-year	20.99	239.75	240.52		240.61	0.004617	1.51	24.17	56.36	0.58
Reach1	1010.657 35.13-30	50-year	24.90	239.75	240.58		240.67	0.004737	1.61	27.26	57.20	0.60
Reach1	1010.657 35.13-30	100-year	28.63	239.75	240.64		240.73	0.004577	1.66	30.61	57.80	0.59
Reach1	1010.657 35.13-30	Regional	93.13	239.75	241.11		241.38	0.007407	2.89	59.23	61.71	0.81
Reach1	1010.471 35.13-29	2-year	1.10	238.92	239.05	239.05	239.09	0.026350	0.96	1.22	13.60	1.00
Reach1	1010.471 35.13-29	5-year	1.94	238.92	239.09	239.09	239.15	0.024612	1.15	1.83	15.03	1.02
Reach1	1010.471 35.13-29	10-year	15.99	238.92	239.56		239.64	0.005346	1.43	18.22	51.31	0.61
Reach1	1010.471 35.13-29	25-year	20.99	238.92	239.66		239.74	0.004678	1.49	24.75	76.13	0.58
Reach1	1010.471 35.13-29	50-year	24.90	238.92	239.72		239.81	0.004552	1.56	29.62	85.27	0.58
Reach1	1010.471 35.13-29	100-year	28.63	238.92	239.76		239.86	0.004782	1.67	33.64	88.76	0.60
Reach1	1010.471 35.13-29	Regional	93.13	238.92	240.95		240.99	0.000756	1.23	176.22	138.70	0.28
Reach1	1010.375 35.13-28	2-year	1.10	238.10	238.46		238.47	0.002667	0.54	2.04	9.16	0.37
Reach1	1010.375 35.13-28	5-year	1.94	238.10	238.57		238.59	0.002357	0.63	3.08	9.99	0.36
Reach1	1010.375 35.13-28	10-year	15.99	238.10	239.23		239.30	0.002411	1.29	21.66	81.24	0.44
Reach1	1010.375 35.13-28	25-year	20.99	238.10	239.29		239.39	0.002983	1.50	27.05	95.97	0.49
Reach1	1010.375 35.13-28	50-year	24.90	238.10	239.35		239.45	0.003019	1.58	33.68	112.96	0.50
Reach1	1010.375 35.13-28	100-year	28.63	238.10	239.43		239.52	0.002708	1.57	43.20	129.17	0.48
Reach1	1010.375 35.13-28	Regional	93.13	238.10	240.93		240.94	0.000207	0.77	324.42	207.48	0.15
Reach1	1010.272 35.13-27	2-year	1.10	237.76	238.17		238.19	0.002815	0.62	1.76	6.57	0.39
Reach1	1010.272 35.13-27	5-year	1.94	237.76	238.28		238.31	0.003060	0.76	2.57	7.72	0.42
Reach1	1010.272 35.13-27	10-year	15.99	237.76	238.95	238.73	239.04	0.002819	1.44	27.31	151.77	0.48
Reach1	1010.272 35.13-27	25-year	20.99	237.76	239.11		239.16	0.001542	1.18	53.39	166.79	0.36
Reach1	1010.272 35.13-27	50-year	24.90	237.76	239.24		239.26	0.001019	1.03	74.34	174.03	0.30
Reach1	1010.272 35.13-27	100-year	28.63	237.76	239.35		239.37	0.000765	0.95	94.42	190.59	0.26
Reach1	1010.272 35.13-27	Regional	93.13	237.76	240.92		240.93	0.000094	0.56	463.75	255.99	0.11
Reach1	1010.177 35.13-26	2-year	1.10	237.68	238.09		238.09	0.000462	0.27	4.03	13.62	0.16
Reach1	1010.177 35.13-26	5-year	1.94	237.68	238.19		238.20	0.000583	0.36	5.46	15.58	0.19
Reach1	1010.177 35.13-26	10-year	15.99	237.68	238.83		238.86	0.001105	0.93	24.06	45.61	0.30
Reach1	1010.177 35.13-26	25-year	20.99	237.68	239.00		239.04	0.000994	0.98	32.43	49.42	0.29
Reach1	1010.177 35.13-26	50-year	24.90	237.68	239.13		239.17	0.000893	1.00	39.09	50.92	0.28
Reach1	1010.177 35.13-26	100-year	28.63	237.68	239.25		239.29	0.000819	1.02	45.15	51.32	0.27

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1010.177 35.13-26	Regional	93.13	237.68	240.86		240.91	0.000387	1.17	159.20	101.49	0.21
Reach1	1010.003 35.13-25	2-year	1.10	237.68	237.93		237.94	0.002334	0.45	2.57	22.58	0.33
Reach1	1010.003 35.13-25	5-year	1.94	237.68	238.00		238.02	0.002444	0.55	4.47	30.36	0.36
Reach1	1010.003 35.13-25	10-year	15.99	237.68	238.73		238.74	0.000554	0.66	49.85	82.15	0.21
Reach1	1010.003 35.13-25	25-year	20.99	237.68	238.93		238.94	0.000438	0.66	67.18	97.29	0.20
Reach1	1010.003 35.13-25	50-year	24.90	237.68	239.07		239.08	0.000386	0.67	84.08	132.14	0.19
Reach1	1010.003 35.13-25	100-year	28.63	237.68	239.20		239.21	0.000322	0.65	101.62	135.43	0.17
Reach1	1010.003 35.13-25	Regional	93.13	237.68	240.86		240.87	0.000111	0.64	349.21	162.03	0.12
Reach1	1009.993 35.13-24	2-year	1.10	237.69	237.91	237.83	237.92	0.001950	0.37	2.99	22.83	0.30
Reach1	1009.993 35.13-24	5-year	1.94	237.69	237.98	237.86	237.99	0.001808	0.45	4.34	25.48	0.30
Reach1	1009.993 35.13-24	10-year	15.99	237.69	238.69	238.17	238.73	0.001026	0.87	18.94	78.60	0.29
Reach1	1009.993 35.13-24	25-year	20.99	237.69	238.88	238.25	238.92	0.000953	0.95	22.87	103.04	0.29
Reach1	1009.993 35.13-24	50-year	24.90	237.69	239.01	238.31	239.06	0.000907	1.00	25.76	112.16	0.29
Reach1	1009.993 35.13-24	100-year	28.63	237.69	239.14	238.37	239.19	0.000874	1.04	28.37	121.23	0.28
Reach1	1009.993 35.13-24	Regional	93.13	237.69	240.86	239.07	240.87	0.000102	0.61	287.30	158.53	0.11
Reach1	1009.981 x-72 (35.13-23)		Bridge									
Reach1	1009.962 35.13-22	2-year	1.10	237.16	237.48	237.40	237.51	0.006355	0.75	1.47	7.80	0.55
Reach1	1009.962 35.13-22	5-year	1.94	237.16	237.53	237.47	237.58	0.010501	1.04	1.87	8.84	0.72
Reach1	1009.962 35.13-22	10-year	15.99	237.16	237.99	237.99	238.25	0.011846	2.27	8.23	43.09	0.92
Reach1	1009.962 35.13-22	25-year	20.99	237.16	238.10	238.10	238.40	0.011265	2.46	10.40	47.72	0.92
Reach1	1009.962 35.13-22	50-year	24.90	237.16	238.18	238.18	238.50	0.011170	2.61	11.89	49.69	0.93
Reach1	1009.962 35.13-22	100-year	28.63	237.16	238.25	238.25	238.59	0.010801	2.72	13.38	52.42	0.93
Reach1	1009.962 35.13-22	Regional	93.13	237.16	239.07	239.07	239.79	0.010253	4.11	30.50	85.23	1.01
Reach1	1009.950 35.13-21	2-year	2.06	237.09	237.34		237.39	0.011816	0.98	2.11	11.86	0.74
Reach1	1009.950 35.13-21	5-year	3.06	237.09	237.40		237.46	0.009809	1.06	2.89	12.59	0.71
Reach1	1009.950 35.13-21	10-year	17.15	237.09	237.87	237.76	238.02	0.006727	1.78	12.13	37.08	0.70
Reach1	1009.950 35.13-21	25-year	22.47	237.09	237.99	237.89	238.15	0.005929	1.87	16.98	42.23	0.67
Reach1	1009.950 35.13-21	50-year	26.64	237.09	238.08		238.24	0.005346	1.91	20.93	44.86	0.65
Reach1	1009.950 35.13-21	100-year	30.74	237.09	238.16		238.33	0.004840	1.93	24.89	47.12	0.63
Reach1	1009.950 35.13-21	Regional	99.69	237.09	239.12		239.30	0.002884	2.36	84.18	87.24	0.54
Reach1	1009.917 35.13-20	2-year	2.06	236.79	237.25		237.26	0.001676	0.48	4.28	16.12	0.30
Reach1	1009.917 35.13-20	5-year	3.06	236.79	237.31		237.33	0.001841	0.57	5.34	16.66	0.32
Reach1	1009.917 35.13-20	10-year	17.15	236.79	237.78		237.86	0.002909	1.22	14.11	21.19	0.46
Reach1	1009.917 35.13-20	25-year	22.47	236.79	237.90		237.99	0.002991	1.37	16.68	22.70	0.48
Reach1	1009.917 35.13-20	50-year	26.64	236.79	237.98		238.09	0.003008	1.47	18.72	24.75	0.49
Reach1	1009.917 35.13-20	100-year	30.74	236.79	238.07		238.19	0.002983	1.55	20.87	27.19	0.50
Reach1	1009.917 35.13-20	Regional	99.69	236.79	238.99		239.21	0.002549	2.22	72.31	77.13	0.51
Reach1	1009.775 35.13-19	2-year	2.06	236.42	236.84		236.87	0.005086	0.87	3.77	30.41	0.52
Reach1	1009.775 35.13-19	5-year	3.06	236.42	236.90		236.94	0.004604	0.95	5.84	34.93	0.52
Reach1	1009.775 35.13-19	10-year	17.15	236.42	237.41		237.46	0.002623	1.31	26.85	44.02	0.45
Reach1	1009.775 35.13-19	25-year	22.47	236.42	237.56		237.61	0.002429	1.40	33.12	45.22	0.45
Reach1	1009.775 35.13-19	50-year	26.64	236.42	237.66		237.71	0.002320	1.46	37.77	46.15	0.44
Reach1	1009.775 35.13-19	100-year	30.74	236.42	237.76		237.82	0.002148	1.49	42.74	47.35	0.43
Reach1	1009.775 35.13-19	Regional	99.69	236.42	238.73		238.85	0.002274	2.27	94.15	58.21	0.49
Reach1	1009.681 35.13-18	2-year	2.06	235.95	236.47		236.51	0.003145	0.88	3.96	22.26	0.44
Reach1	1009.681 35.13-18	5-year	3.06	235.95	236.55		236.59	0.003069	0.98	5.85	24.65	0.44
Reach1	1009.681 35.13-18	10-year	17.15	235.95	237.21		237.25	0.001892	1.35	32.16	52.66	0.40
Reach1	1009.681 35.13-18	25-year	22.47	235.95	237.37		237.42	0.001698	1.40	41.07	56.22	0.39
Reach1	1009.681 35.13-18	50-year	26.64	235.95	237.49		237.53	0.001594	1.43	47.80	62.69	0.38
Reach1	1009.681 35.13-18	100-year	30.74	235.95	237.60		237.64	0.001624	1.52	55.13	69.02	0.39
Reach1	1009.681 35.13-18	Regional	99.69	235.95	238.60		238.67	0.001416	1.98	130.03	78.26	0.40
Reach1	1009.607 35.13-17	2-year	2.06	235.74	236.20		236.23	0.004472	0.82	2.53	9.28	0.49
Reach1	1009.607 35.13-17	5-year	3.06	235.74	236.27		236.32	0.004460	0.96	3.25	9.94	0.51
Reach1	1009.607 35.13-17	10-year	17.15	235.74	236.87	236.65	237.04	0.004511	1.86	12.12	21.06	0.61
Reach1	1009.607 35.13-17	25-year	22.47	235.74	237.01	236.79	237.20	0.004730	2.07	15.10	23.80	0.63
Reach1	1009.607 35.13-17	50-year	26.64	235.74	237.09	236.89	237.32	0.004964	2.24	17.34	28.23	0.66
Reach1	1009.607 35.13-17	100-year	30.74	235.74	237.17	236.97	237.43	0.005137	2.38	19.83	34.30	0.68
Reach1	1009.607 35.13-17	Regional	99.69	235.74	237.94	237.88	238.43	0.006747	3.74	55.13	55.86	0.84
Reach1	1009.462 35.13-16	2-year	2.06	235.12	235.50		235.54	0.005111	0.86	2.39	8.59	0.52
Reach1	1009.462 35.13-16	5-year	3.06	235.12	235.58		235.63	0.005039	0.98	3.12	9.16	0.54
Reach1	1009.462 35.13-16	10-year	17.15	235.12	236.05	236.01	236.24	0.006805	2.00	12.96	37.28	0.72
Reach1	1009.462 35.13-16	25-year	22.47	235.12	236.15	236.12	236.36	0.007222	2.22	16.62	41.32	0.75
Reach1	1009.462 35.13-16	50-year	26.64	235.12	236.21	236.19	236.44	0.007426	2.35	19.31	42.61	0.77
Reach1	1009.462 35.13-16	100-year	30.74	235.12	236.26	236.24	236.52	0.007741	2.49	21.63	43.88	0.79
Reach1	1009.462 35.13-16	Regional	99.69	235.12	236.96	236.90	237.35	0.007711	3.53	59.68	62.33	0.87
Reach1	1009.371 35.13-15	2-year	2.06	234.81	235.22	235.04	235.24	0.002232	0.61	3.39	11.13	0.35
Reach1	1009.371 35.13-15	5-year	3.06	234.81	235.31	235.09	235.34	0.002122	0.68	4.56	14.23	0.35
Reach1	1009.371 35.13-15	10-year	17.15	234.81	235.75	235.57	235.82	0.002845	1.29	24.09	61.33	0.46
Reach1	1009.371 35.13-15	25-year	22.47	234.81	235.84	235.65	235.92	0.002981	1.41	29.59	62.54	0.48
Reach1	1009.371 35.13-15	50-year	26.64	234.81	235.91	235.71	235.99	0.003017	1.49	33.74	63.44	0.49
Reach1	1009.371 35.13-15	100-year	30.74	234.81	235.98	235.76	236.06	0.002892	1.54	38.29	64.20	0.49
Reach1	1009.371 35.13-15	Regional	99.69	234.81	236.73	236.25	236.87	0.002843	2.21	90.41	75.89	0.53

HEC-RAS Plan: ModEx_Feb2024_12hr_NoBerms River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1009.169 35.13-14	2-year	2.06	234.16	234.67	234.54	234.70	0.003245	0.77	3.91	35.98	0.43
Reach1	1009.169 35.13-14	5-year	3.06	234.16	234.71	234.60	234.76	0.004257	0.95	5.58	45.37	0.50
Reach1	1009.169 35.13-14	10-year	17.15	234.16	235.07		235.14	0.004893	1.60	23.25	52.25	0.60
Reach1	1009.169 35.13-14	25-year	22.47	234.16	235.17		235.25	0.004615	1.70	28.63	52.86	0.59
Reach1	1009.169 35.13-14	50-year	26.64	234.16	235.24		235.33	0.004494	1.77	32.44	53.18	0.60
Reach1	1009.169 35.13-14	100-year	30.74	234.16	235.27		235.37	0.005383	1.97	33.62	53.28	0.65
Reach1	1009.169 35.13-14	Regional	99.69	234.16	235.80		236.06	0.008609	3.37	62.69	55.77	0.89
Reach1	1009.059 35.13-13	2-year	2.06	233.50	233.89	233.89	234.02	0.016275	1.62	1.47	7.64	0.95
Reach1	1009.059 35.13-13	5-year	3.06	233.50	234.02	234.02	234.12	0.008648	1.50	2.98	17.10	0.73
Reach1	1009.059 35.13-13	10-year	17.15	233.50	234.35	234.35	234.49	0.009416	2.29	14.03	44.69	0.84
Reach1	1009.059 35.13-13	25-year	22.47	233.50	234.39	234.39	234.57	0.011492	2.63	16.08	46.22	0.94
Reach1	1009.059 35.13-13	50-year	26.64	233.50	234.43	234.43	234.63	0.012674	2.85	17.86	51.68	0.99
Reach1	1009.059 35.13-13	100-year	30.74	233.50	234.51	234.51	234.67	0.009850	2.66	21.92	52.53	0.89
Reach1	1009.059 35.13-13	Regional	99.69	233.50	235.00		235.24	0.008817	3.36	54.12	82.00	0.90
Reach1	1008.977 35.13-12	2-year	2.06	232.58	233.12	232.85	233.13	0.001084	0.57	5.94	17.31	0.27
Reach1	1008.977 35.13-12	5-year	3.06	232.58	233.22	232.90	233.24	0.001139	0.67	7.86	19.45	0.28
Reach1	1008.977 35.13-12	10-year	17.15	232.58	233.77	233.33	233.83	0.002542	1.56	28.61	58.53	0.47
Reach1	1008.977 35.13-12	25-year	22.47	232.58	233.87	233.53	233.95	0.002757	1.72	35.25	67.40	0.50
Reach1	1008.977 35.13-12	50-year	26.64	232.58	233.98	233.56	234.05	0.002461	1.72	43.03	76.52	0.47
Reach1	1008.977 35.13-12	100-year	30.74	232.58	234.06	233.77	234.13	0.002430	1.78	48.92	78.64	0.48
Reach1	1008.977 35.13-12	Regional	99.69	232.58	234.57	234.34	234.74	0.004779	3.06	93.29	93.92	0.70
Reach1	1008.763 35.13-11	2-year	2.06	232.04	232.41	232.41	232.51	0.020755	1.45	1.42	6.74	1.01
Reach1	1008.763 35.13-11	5-year	3.06	232.04	232.48	232.48	232.61	0.019551	1.58	1.94	7.75	1.01
Reach1	1008.763 35.13-11	10-year	17.15	232.04	233.10	232.91	233.19	0.003966	1.51	18.93	83.36	0.55
Reach1	1008.763 35.13-11	25-year	22.47	232.04	233.26	233.00	233.35	0.003209	1.53	25.22	96.59	0.51
Reach1	1008.763 35.13-11	50-year	26.64	232.04	233.25	233.05	233.38	0.004687	1.84	24.86	96.06	0.61
Reach1	1008.763 35.13-11	100-year	30.74	232.04	233.31	233.13	233.45	0.004819	1.95	27.40	100.76	0.63
Reach1	1008.763 35.13-11	Regional	99.69	232.04	233.86	233.62	233.96	0.003162	2.12	112.68	137.77	0.55
Reach1	1008.567 35.13-10	2-year	2.06	230.88	231.44		231.47	0.002001	0.81	3.81	10.08	0.36
Reach1	1008.567 35.13-10	5-year	3.06	230.88	231.54		231.57	0.002367	0.99	4.80	10.90	0.41
Reach1	1008.567 35.13-10	10-year	17.15	230.88	232.00	232.00	232.20	0.007171	2.52	16.06	38.86	0.78
Reach1	1008.567 35.13-10	25-year	22.47	230.88	232.04	232.04	232.34	0.010379	3.10	17.46	40.44	0.94
Reach1	1008.567 35.13-10	50-year	26.64	230.88	232.32	232.32	232.48	0.004976	2.49	36.24	95.15	0.68
Reach1	1008.567 35.13-10	100-year	30.74	230.88	232.36	232.36	232.53	0.005171	2.60	40.41	96.49	0.70
Reach1	1008.567 35.13-10	Regional	99.69	230.88	232.74	232.74	233.03	0.009457	4.12	79.92	105.83	0.98
Reach1	1008.456 35.13-09	2-year	2.06	230.68	231.10	231.00	231.14	0.005201	0.87	3.03	18.70	0.53
Reach1	1008.456 35.13-09	5-year	3.06	230.68	231.18	231.08	231.22	0.004960	0.96	4.79	32.41	0.53
Reach1	1008.456 35.13-09	10-year	17.15	230.68	231.60	231.44	231.64	0.002892	1.24	32.94	90.44	0.46
Reach1	1008.456 35.13-09	25-year	22.47	230.68	231.68	231.50	231.73	0.002917	1.34	40.56	94.77	0.47
Reach1	1008.456 35.13-09	50-year	26.64	230.68	231.75	231.54	231.79	0.002833	1.39	46.73	98.37	0.47
Reach1	1008.456 35.13-09	100-year	30.74	230.68	231.79	231.57	231.84	0.002985	1.47	51.07	100.96	0.49
Reach1	1008.456 35.13-09	Regional	99.69	230.68	232.34	231.95	232.43	0.003510	2.18	111.47	115.74	0.57
Reach1	1008.365 35.13-08	2-year	2.06	230.30	230.71	230.57	230.74	0.003727	0.79	2.63	9.17	0.45
Reach1	1008.365 35.13-08	5-year	3.06	230.30	230.79	230.63	230.84	0.003637	0.91	3.50	12.33	0.47
Reach1	1008.365 35.13-08	10-year	17.15	230.30	231.23	231.12	231.34	0.004663	1.71	22.33	71.90	0.60
Reach1	1008.365 35.13-08	25-year	22.47	230.30	231.32	231.24	231.43	0.004708	1.83	29.57	100.17	0.61
Reach1	1008.365 35.13-08	50-year	26.64	230.30	231.38	231.31	231.50	0.004792	1.93	36.17	106.69	0.62
Reach1	1008.365 35.13-08	100-year	30.74	230.30	231.43	231.35	231.54	0.004636	1.96	41.61	107.69	0.62
Reach1	1008.365 35.13-08	Regional	99.69	230.30	231.79	231.74	232.03	0.008440	3.24	82.03	114.97	0.88
Reach1	1008.200 35.13-07	2-year	2.06	229.50	229.80	229.75	229.85	0.008512	1.08	2.48	11.30	0.67
Reach1	1008.200 35.13-07	5-year	3.06	229.50	229.86	229.80	229.93	0.009252	1.28	3.18	12.82	0.72
Reach1	1008.200 35.13-07	10-year	17.15	229.50	230.26	230.26	230.37	0.007941	2.03	23.33	85.86	0.77
Reach1	1008.200 35.13-07	25-year	22.47	229.50	230.33	230.33	230.45	0.008021	2.18	30.35	106.04	0.78
Reach1	1008.200 35.13-07	50-year	26.64	229.50	230.37	230.37	230.49	0.008410	2.30	34.22	108.22	0.81
Reach1	1008.200 35.13-07	100-year	30.74	229.50	230.40	230.40	230.54	0.008912	2.43	38.15	120.89	0.84
Reach1	1008.200 35.13-07	Regional	99.69	229.50	231.02	230.72	231.09	0.003949	2.32	125.07	152.22	0.61
Reach1	1008.094 35.13-06	2-year	2.14	228.90	229.40	229.24	229.41	0.002520	0.68	6.69	51.75	0.38
Reach1	1008.094 35.13-06	5-year	3.17	228.90	229.45	229.32	229.47	0.002586	0.76	9.62	56.10	0.39
Reach1	1008.094 35.13-06	10-year	17.75	228.90	229.81	229.62	229.85	0.002764	1.21	35.80	77.40	0.45
Reach1	1008.094 35.13-06	25-year	23.25	228.90	229.90	229.67	229.94	0.002833	1.32	42.63	80.44	0.46
Reach1	1008.094 35.13-06	50-year	27.57	228.90	229.96	229.70	230.00	0.002873	1.39	47.62	82.17	0.47
Reach1	1008.094 35.13-06	100-year	31.82	228.90	230.02	229.73	230.06	0.002868	1.45	52.70	87.01	0.48
Reach1	1008.094 35.13-06	Regional	103.18	228.90	230.70	230.12	230.77	0.002937	2.10	126.78	148.14	0.53
Reach1	1007.822 35.13-05	2-year	2.14	227.91	228.45		228.46	0.005165	0.47	5.50	33.08	0.24
Reach1	1007.822 35.13-05	5-year	3.17	227.91	228.53		228.54	0.004709	0.51	8.21	41.60	0.24
Reach1	1007.822 35.13-05	10-year	17.75	227.91	228.91		228.93	0.004152	0.72	33.31	71.95	0.25
Reach1	1007.822 35.13-05	25-year	23.25	227.91	229.01		229.03	0.003925	0.75	40.17	72.62	0.25
Reach1	1007.822 35.13-05	50-year	27.57	227.91	229.08		229.10	0.003807	0.77	45.12	73.16	0.25
Reach1	1007.822 35.13-05	100-year	31.82	227.91	229.13		229.15	0.003902	0.81	48.96	73.61	0.25
Reach1	1007.822 35.13-05	Regional	103.18	227.91	229.78		229.83	0.004111	1.14	105.66	127.56	0.28
Reach1	1007.614 35.13-04	2-year	2.14	226.62	227.12		227.13	0.008118	0.52	4.39	15.74	0.30
Reach1	1007.614 35.13-04	5-year	3.17	226.62	227.19		227.20	0.009229	0.63	5.41	16.61	0.33
Reach1	1007.614 35.13-04	10-year	17.75	226.62	227.80		227.84	0.006828	1.03	23.52	43.35	0.33
Reach1	1007.614 35.13-04	25-year	23.25	226.62	227.95	227.44	227.99	0.006561	1.11	30.44	54.79	0.33

HEC-RAS Plan: Feb2024_Proposed_6hr_Controlled River: Salt Creek Reach: Reach1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1012.797 34.03-12	2-year	0.62	251.01	251.41	251.22	251.42	0.001836	0.51	1.21	4.40	0.31
Reach1	1012.797 34.03-12	5-year	1.20	251.01	251.55	251.31	251.57	0.001990	0.62	1.95	6.28	0.34
Reach1	1012.797 34.03-12	10-year	11.27	251.01	252.14	251.93	252.18	0.001855	1.13	26.26	76.88	0.38
Reach1	1012.797 34.03-12	25-year	15.28	251.01	252.14		252.21	0.003603	1.56	25.66	76.84	0.53
Reach1	1012.797 34.03-12	50-year	18.56	251.01	252.14		252.25	0.005226	1.88	25.85	76.85	0.64
Reach1	1012.797 34.03-12	100-year	21.63	251.01	252.20		252.30	0.004685	1.87	30.63	77.22	0.61
Reach1	1012.797 34.03-12	Regional	74.63	251.01	253.00		253.07	0.002295	1.96	94.48	82.36	0.47
Reach1	1012.596 34.03-11	2-year	0.62	250.26	250.45	250.45	250.51	0.022846	1.14	0.54	3.97	0.98
Reach1	1012.596 34.03-11	5-year	1.20	250.26	250.52	250.52	250.62	0.021602	1.37	0.88	4.66	1.01
Reach1	1012.596 34.03-11	10-year	11.27	250.26	251.12	251.12	251.41	0.012067	2.40	5.15	12.15	0.93
Reach1	1012.596 34.03-11	25-year	15.28	250.26	251.51		251.60	0.002816	1.56	21.64	61.38	0.48
Reach1	1012.596 34.03-11	50-year	18.56	250.26	251.76		251.80	0.001225	1.19	39.17	72.46	0.33
Reach1	1012.596 34.03-11	100-year	21.63	250.26	251.97		252.00	0.000722	1.01	54.53	74.31	0.26
Reach1	1012.596 34.03-11	Regional	74.63	250.26	252.71		252.77	0.001193	1.69	113.02	85.24	0.36
Reach1	1012.484 34.03-10	2-year	0.62	249.90	250.15	250.02	250.15	0.001152	0.33	1.97	10.11	0.24
Reach1	1012.484 34.03-10	5-year	1.20	249.90	250.26	250.06	250.26	0.001048	0.41	3.11	10.83	0.24
Reach1	1012.484 34.03-10	10-year	11.27	249.90	251.23	250.49	251.23	0.000187	0.42	61.65	98.08	0.13
Reach1	1012.484 34.03-10	25-year	15.28	249.90	251.53	250.66	251.54	0.000111	0.38	92.54	103.66	0.10
Reach1	1012.484 34.03-10	50-year	18.56	249.90	251.77	250.75	251.77	0.000084	0.36	116.85	106.55	0.09
Reach1	1012.484 34.03-10	100-year	21.63	249.90	251.97	250.80	251.97	0.000069	0.36	138.75	108.64	0.08
Reach1	1012.484 34.03-10	Regional	74.63	249.90	252.70	251.18	252.71	0.000206	0.77	221.44	117.42	0.15
Reach1	1012.476 34.03-09	2-year	0.62	249.87	250.14	250.01	250.14	0.001220	0.34	1.83	9.23	0.24
Reach1	1012.476 34.03-09	5-year	1.20	249.87	250.25	250.05	250.26	0.001123	0.42	2.87	9.86	0.25
Reach1	1012.476 34.03-09	10-year	11.27	249.87	251.18	250.47	251.21	0.000772	0.84	13.42	94.23	0.25
Reach1	1012.476 34.03-09	25-year	15.28	249.87	251.47	250.58	251.51	0.000642	0.90	17.02	97.04	0.24
Reach1	1012.476 34.03-09	50-year	18.56	249.87	251.70	250.66	251.74	0.000579	0.94	19.74	98.49	0.24
Reach1	1012.476 34.03-09	100-year	21.63	249.87	251.89	250.74	251.94	0.000536	0.98	22.13	99.27	0.23
Reach1	1012.476 34.03-09	Regional	74.63	249.87	252.70	251.64	252.71	0.000219	0.79	216.90	153.48	0.16
Reach1	1012.466 x-73 (34.03-08)		Culvert									
Reach1	1012.451 34.03-07	2-year	0.62	249.87	250.13	249.99	250.13	0.001988	0.43	1.92	9.43	0.31
Reach1	1012.451 34.03-07	5-year	1.20	249.87	250.22	250.04	250.23	0.002165	0.56	2.88	10.31	0.34
Reach1	1012.451 34.03-07	10-year	11.27	249.87	250.77	250.50	250.88	0.004752	1.70	9.29	44.98	0.60
Reach1	1012.451 34.03-07	25-year	15.28	249.87	250.84	250.63	251.01	0.006675	2.13	10.14	47.77	0.73
Reach1	1012.451 34.03-07	50-year	18.56	249.87	250.88	250.72	251.12	0.008248	2.45	10.74	49.03	0.81
Reach1	1012.451 34.03-07	100-year	21.63	249.87	250.93	250.80	251.21	0.009488	2.71	11.33	50.27	0.88
Reach1	1012.451 34.03-07	Regional	74.63	249.87	251.79	251.79	252.66	0.012680	4.79	22.48	100.21	1.13
Reach1	1012.447 34.03-06	2-year	0.63	249.87	250.11		250.12	0.003125	0.51	1.25	6.98	0.38
Reach1	1012.447 34.03-06	5-year	1.23	249.87	250.20		250.22	0.003213	0.63	1.94	7.84	0.41
Reach1	1012.447 34.03-06	10-year	11.53	249.87	250.75	250.55	250.86	0.004194	1.52	11.19	47.73	0.56
Reach1	1012.447 34.03-06	25-year	15.64	249.87	250.82	250.72	250.96	0.005356	1.82	15.02	64.45	0.64
Reach1	1012.447 34.03-06	50-year	19.00	249.87	250.87	250.85	251.03	0.005783	1.97	18.33	65.10	0.67
Reach1	1012.447 34.03-06	100-year	22.14	249.87	250.92	250.90	251.09	0.005716	2.03	21.84	65.63	0.68
Reach1	1012.447 34.03-06	Regional	76.38	249.87	251.56		251.75	0.004848	2.66	67.67	80.78	0.68
Reach1	1012.394 34.03-05	2-year	0.63	249.54	249.71	249.71	249.76	0.022015	1.00	0.63	5.52	0.94
Reach1	1012.394 34.03-05	5-year	1.23	249.54	249.77	249.77	249.85	0.023092	1.23	1.00	6.58	1.01
Reach1	1012.394 34.03-05	10-year	11.53	249.54	250.28	250.28	250.51	0.011271	2.13	6.29	28.94	0.88
Reach1	1012.394 34.03-05	25-year	15.64	249.54	250.43	250.43	250.62	0.007711	2.05	12.73	52.39	0.76
Reach1	1012.394 34.03-05	50-year	19.00	249.54	250.51	250.51	250.69	0.006961	2.08	17.18	57.07	0.73
Reach1	1012.394 34.03-05	100-year	22.14	249.54	250.56	250.56	250.75	0.007030	2.18	20.00	57.95	0.74
Reach1	1012.394 34.03-05	Regional	76.38	249.54	251.06	251.06	251.39	0.009235	3.37	51.26	69.98	0.92
Reach1	1012.190 34.03-04	2-year	0.63	248.52	248.71		248.71	0.002202	0.38	2.08	15.54	0.31
Reach1	1012.190 34.03-04	5-year	1.23	248.52	248.78		248.79	0.002018	0.48	3.29	16.15	0.32
Reach1	1012.190 34.03-04	10-year	11.53	248.52	249.29		249.34	0.002540	1.17	21.73	99.18	0.44
Reach1	1012.190 34.03-04	25-year	15.64	248.52	249.37		249.43	0.002703	1.30	30.44	118.80	0.46
Reach1	1012.190 34.03-04	50-year	19.00	248.52	249.43		249.48	0.002610	1.33	37.55	123.16	0.46
Reach1	1012.190 34.03-04	100-year	22.14	248.52	249.47		249.53	0.002585	1.37	43.31	126.03	0.46
Reach1	1012.190 34.03-04	Regional	76.38	248.52	250.07		250.12	0.001961	1.67	126.48	155.34	0.43
Reach1	1011.995 34.03-03	2-year	0.63	247.86	248.13		248.14	0.004107	0.60	1.06	5.67	0.44
Reach1	1011.995 34.03-03	5-year	1.23	247.86	248.23		248.25	0.004099	0.74	1.67	6.44	0.46
Reach1	1011.995 34.03-03	10-year	11.53	247.86	248.78		248.84	0.002953	1.26	19.66	69.44	0.47
Reach1	1011.995 34.03-03	25-year	15.64	247.86	248.90		248.95	0.002581	1.30	28.21	79.82	0.45
Reach1	1011.995 34.03-03	50-year	19.00	247.86	248.98		249.03	0.002403	1.34	35.44	85.88	0.44
Reach1	1011.995 34.03-03	100-year	22.14	247.86	249.05		249.10	0.002287	1.36	40.99	88.33	0.43
Reach1	1011.995 34.03-03	Regional	76.38	247.86	249.71		249.78	0.002109	1.83	105.89	104.88	0.45
Reach1	1011.786 34.03-02	2-year	0.63	246.99	247.35		247.37	0.003374	0.57	1.12	5.57	0.40
Reach1	1011.786 34.03-02	5-year	1.23	246.99	247.46		247.49	0.003290	0.68	1.81	6.68	0.42
Reach1	1011.786 34.03-02	10-year	11.53	246.99	248.02		248.11	0.004619	1.41	9.86	29.82	0.57
Reach1	1011.786 34.03-02	25-year	15.64	246.99	248.08	247.96	248.22	0.005788	1.68	12.03	38.48	0.65
Reach1	1011.786 34.03-02	50-year	19.00	246.99	248.12	248.04	248.29	0.006893	1.90	13.54	40.73	0.71
Reach1	1011.786 34.03-02	100-year	22.14	246.99	248.16	248.11	248.36	0.007499	2.06	15.30	45.05	0.75
Reach1	1011.786 34.03-02	Regional	76.38	246.99	248.72	248.72	249.08	0.008542	3.16	47.40	70.62	0.88
Reach1	1011.625 34.03-01	2-year	0.63	246.31	246.57		246.60	0.007215	0.73	0.88	5.88	0.57
Reach1	1011.625 34.03-01	5-year	1.23	246.31	246.65		246.69	0.008310	0.93	1.40	7.46	0.64

HEC-RAS Plan: Feb2024_Proposed_6hr_Controlled River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1011.625 34.03-01	10-year	11.53	246.31	247.18	247.08	247.30	0.006175	1.71	14.08	69.74	0.66
Reach1	1011.625 34.03-01	25-year	15.64	246.31	247.28	247.25	247.38	0.005213	1.72	21.74	78.25	0.62
Reach1	1011.625 34.03-01	50-year	19.00	246.31	247.35		247.44	0.004592	1.71	27.93	105.08	0.60
Reach1	1011.625 34.03-01	100-year	22.14	246.31	247.43	247.33	247.51	0.004205	1.73	36.27	116.45	0.58
Reach1	1011.625 34.03-01	Regional	76.38	246.31	248.12		248.16	0.001912	1.70	130.77	157.20	0.43
Reach1	1011.370 34.01-02	2-year	0.77	244.89	245.13		245.15	0.004718	0.58	1.32	8.15	0.46
Reach1	1011.370 34.01-02	5-year	1.49	244.89	245.23		245.25	0.004295	0.69	2.16	9.64	0.46
Reach1	1011.370 34.01-02	10-year	14.22	244.89	245.72	245.60	245.85	0.005730	1.72	11.82	25.08	0.65
Reach1	1011.370 34.01-02	25-year	19.23	244.89	245.82	245.70	245.99	0.006364	1.97	14.33	26.09	0.70
Reach1	1011.370 34.01-02	50-year	23.31	244.89	245.89	245.78	246.09	0.006884	2.16	16.15	27.18	0.74
Reach1	1011.370 34.01-02	100-year	27.14	244.89	245.95	245.84	246.18	0.007313	2.33	17.85	28.88	0.77
Reach1	1011.370 34.01-02	Regional	93.13	244.89	246.64	246.64	247.21	0.010128	3.96	40.77	36.87	0.99
Reach1	1011.241 34.01-01	2-year	0.77	244.29	244.55	244.47	244.57	0.004422	0.63	1.37	9.88	0.46
Reach1	1011.241 34.01-01	5-year	1.49	244.29	244.62	244.54	244.66	0.005062	0.84	2.43	19.89	0.52
Reach1	1011.241 34.01-01	10-year	14.22	244.29	245.00	244.95	245.08	0.006562	1.73	20.11	61.38	0.69
Reach1	1011.241 34.01-01	25-year	19.23	244.29	245.09	245.01	245.17	0.006560	1.87	25.22	63.55	0.70
Reach1	1011.241 34.01-01	50-year	23.31	244.29	245.15	245.05	245.24	0.006521	1.97	29.18	66.51	0.71
Reach1	1011.241 34.01-01	100-year	27.14	244.29	245.20	245.09	245.30	0.006505	2.05	33.03	72.50	0.71
Reach1	1011.241 34.01-01	Regional	93.13	244.29	245.89	245.53	246.01	0.004653	2.59	91.96	95.24	0.67
Reach1	1011.186 35.13-33	2-year	0.77	243.83	243.96	243.95	244.00	0.042719	1.11	1.00	11.20	1.24
Reach1	1011.186 35.13-33	5-year	1.49	243.83	244.02	244.01	244.07	0.034629	1.29	1.75	15.46	1.19
Reach1	1011.186 35.13-33	10-year	14.22	243.83	244.46	244.40	244.61	0.014009	2.27	12.75	40.41	0.98
Reach1	1011.186 35.13-33	25-year	19.23	243.83	244.55	244.52	244.71	0.013155	2.44	16.70	43.23	0.97
Reach1	1011.186 35.13-33	50-year	23.31	243.83	244.61	244.58	244.79	0.013068	2.58	19.37	43.93	0.98
Reach1	1011.186 35.13-33	100-year	27.14	243.83	244.67	244.62	244.85	0.012922	2.70	21.76	44.48	0.99
Reach1	1011.186 35.13-33	Regional	93.13	243.83	245.40	245.18	245.68	0.009503	3.63	56.22	48.89	0.95
Reach1	1010.985 35.13-32	2-year	0.77	241.92	242.25	242.15	242.27	0.003643	0.61	1.58	12.31	0.42
Reach1	1010.985 35.13-32	5-year	1.49	241.92	242.33	242.24	242.36	0.003835	0.78	3.08	24.00	0.46
Reach1	1010.985 35.13-32	10-year	14.22	241.92	242.77		242.86	0.006128	1.81	16.45	34.26	0.67
Reach1	1010.985 35.13-32	25-year	19.23	241.92	242.87		242.98	0.006356	2.01	20.05	35.02	0.70
Reach1	1010.985 35.13-32	50-year	23.31	241.92	242.96		243.08	0.006275	2.13	22.99	35.63	0.71
Reach1	1010.985 35.13-32	100-year	27.14	241.92	243.03		243.16	0.006227	2.23	25.59	36.15	0.72
Reach1	1010.985 35.13-32	Regional	93.13	241.92	243.80		244.08	0.007414	3.57	64.72	64.03	0.86
Reach1	1010.760 35.13-31	2-year	0.77	240.25	240.49	240.49	240.55	0.025162	1.12	0.68	5.52	1.02
Reach1	1010.760 35.13-31	5-year	1.49	240.25	240.56	240.56	240.65	0.022228	1.32	1.13	6.46	1.01
Reach1	1010.760 35.13-31	10-year	14.22	240.25	241.16	241.16	241.35	0.008270	2.11	11.74	38.75	0.78
Reach1	1010.760 35.13-31	25-year	19.23	240.25	241.26	241.26	241.47	0.008138	2.29	15.84	40.76	0.80
Reach1	1010.760 35.13-31	50-year	23.31	240.25	241.33	241.33	241.55	0.008482	2.45	18.43	41.52	0.82
Reach1	1010.760 35.13-31	100-year	27.14	240.25	241.38	241.38	241.62	0.008754	2.58	20.67	42.16	0.84
Reach1	1010.760 35.13-31	Regional	93.13	240.25	242.11	242.11	242.48	0.008329	3.67	62.49	75.11	0.90
Reach1	1010.657 35.13-30	2-year	0.77	239.75	239.95		239.96	0.001937	0.38	2.13	14.17	0.30
Reach1	1010.657 35.13-30	5-year	1.49	239.75	240.03		240.04	0.002037	0.48	3.33	16.29	0.32
Reach1	1010.657 35.13-30	10-year	14.22	239.75	240.42		240.49	0.004064	1.28	18.68	54.67	0.53
Reach1	1010.657 35.13-30	25-year	19.23	239.75	240.50		240.58	0.004504	1.46	22.80	55.95	0.57
Reach1	1010.657 35.13-30	50-year	23.31	239.75	240.55		240.65	0.004768	1.58	25.87	56.88	0.59
Reach1	1010.657 35.13-30	100-year	27.14	239.75	240.61		240.71	0.004612	1.64	29.35	57.59	0.59
Reach1	1010.657 35.13-30	Regional	93.13	239.75	241.11		241.38	0.007407	2.89	59.23	61.71	0.81
Reach1	1010.471 35.13-29	2-year	0.77	238.92	239.03	239.03	239.06	0.026636	0.85	0.96	12.95	0.97
Reach1	1010.471 35.13-29	5-year	1.49	238.92	239.07	239.07	239.12	0.024801	1.05	1.53	14.34	1.00
Reach1	1010.471 35.13-29	10-year	14.22	238.92	239.51		239.60	0.005761	1.41	16.19	48.18	0.62
Reach1	1010.471 35.13-29	25-year	19.23	238.92	239.63		239.71	0.004861	1.47	22.30	69.83	0.59
Reach1	1010.471 35.13-29	50-year	23.31	238.92	239.70		239.78	0.004496	1.52	27.96	83.53	0.58
Reach1	1010.471 35.13-29	100-year	27.14	238.92	239.75		239.85	0.004678	1.63	32.37	87.79	0.60
Reach1	1010.471 35.13-29	Regional	93.13	238.92	240.95		240.99	0.000756	1.23	176.22	138.70	0.28
Reach1	1010.375 35.13-28	2-year	0.77	238.10	238.40		238.41	0.002977	0.50	1.55	8.61	0.37
Reach1	1010.375 35.13-28	5-year	1.49	238.10	238.51		238.53	0.002473	0.58	2.55	9.60	0.36
Reach1	1010.375 35.13-28	10-year	14.22	238.10	239.19		239.26	0.002327	1.23	18.50	71.30	0.42
Reach1	1010.375 35.13-28	25-year	19.23	238.10	239.27		239.36	0.002815	1.44	25.05	89.52	0.47
Reach1	1010.375 35.13-28	50-year	23.31	238.10	239.33		239.43	0.003106	1.57	30.52	105.92	0.50
Reach1	1010.375 35.13-28	100-year	27.14	238.10	239.40		239.50	0.002901	1.59	39.06	124.26	0.49
Reach1	1010.375 35.13-28	Regional	93.13	238.10	240.93		240.94	0.000207	0.77	324.42	207.48	0.15
Reach1	1010.272 35.13-27	2-year	0.77	237.76	238.11		238.12	0.002720	0.56	1.38	5.96	0.37
Reach1	1010.272 35.13-27	5-year	1.49	237.76	238.23		238.25	0.002925	0.69	2.16	7.17	0.40
Reach1	1010.272 35.13-27	10-year	14.22	237.76	238.89	238.66	238.98	0.003134	1.45	19.23	103.47	0.50
Reach1	1010.272 35.13-27	25-year	19.23	237.76	239.06		239.11	0.001891	1.27	44.42	164.30	0.40
Reach1	1010.272 35.13-27	50-year	23.31	237.76	239.19		239.22	0.001190	1.08	65.75	170.42	0.32
Reach1	1010.272 35.13-27	100-year	27.14	237.76	239.30		239.33	0.000860	0.98	86.14	182.48	0.28
Reach1	1010.272 35.13-27	Regional	93.13	237.76	240.92		240.93	0.000094	0.56	463.75	255.99	0.11
Reach1	1010.177 35.13-26	2-year	0.77	237.68	238.04		238.04	0.000408	0.23	3.31	12.97	0.15
Reach1	1010.177 35.13-26	5-year	1.49	237.68	238.14		238.15	0.000522	0.31	4.76	14.25	0.17
Reach1	1010.177 35.13-26	10-year	14.22	237.68	238.76		238.80	0.001164	0.90	21.10	41.71	0.30
Reach1	1010.177 35.13-26	25-year	19.23	237.68	238.94		238.98	0.001042	0.97	29.48	48.70	0.30
Reach1	1010.177 35.13-26	50-year	23.31	237.68	239.08		239.12	0.000935	0.99	36.34	50.54	0.29
Reach1	1010.177 35.13-26	100-year	27.14	237.68	239.20		239.24	0.000850	1.01	42.70	51.32	0.28

HEC-RAS Plan: Feb2024_Proposed_6hr_Controlled River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1010.177 35.13-26	Regional	93.13	237.68	240.86		240.91	0.000387	1.17	159.20	101.49	0.21
Reach1	1010.003 35.13-25	2-year	0.77	237.68	237.90		237.91	0.001981	0.38	2.00	12.03	0.30
Reach1	1010.003 35.13-25	5-year	1.49	237.68	237.97		237.98	0.002474	0.51	3.46	27.30	0.35
Reach1	1010.003 35.13-25	10-year	14.22	237.68	238.66		238.67	0.000565	0.63	44.29	72.91	0.21
Reach1	1010.003 35.13-25	25-year	19.23	237.68	238.86		238.87	0.000471	0.66	60.88	90.87	0.20
Reach1	1010.003 35.13-25	50-year	23.31	237.68	239.01		239.02	0.000400	0.66	76.67	122.57	0.19
Reach1	1010.003 35.13-25	100-year	27.14	237.68	239.15		239.16	0.000346	0.66	94.54	134.28	0.18
Reach1	1010.003 35.13-25	Regional	93.13	237.68	240.86		240.87	0.000111	0.64	349.21	162.03	0.12
Reach1	1009.993 35.13-24	2-year	0.77	237.69	237.88	237.81	237.89	0.002001	0.32	2.39	21.73	0.29
Reach1	1009.993 35.13-24	5-year	1.49	237.69	237.95	237.84	237.96	0.001889	0.41	3.64	24.16	0.30
Reach1	1009.993 35.13-24	10-year	14.22	237.69	238.62	238.14	238.65	0.001060	0.84	17.45	76.45	0.29
Reach1	1009.993 35.13-24	25-year	19.23	237.69	238.81	238.23	238.86	0.000976	0.92	21.52	96.16	0.29
Reach1	1009.993 35.13-24	50-year	23.31	237.69	238.96	238.29	239.01	0.000925	0.98	24.60	107.69	0.29
Reach1	1009.993 35.13-24	100-year	27.14	237.69	239.09	238.34	239.14	0.000889	1.03	27.32	117.36	0.28
Reach1	1009.993 35.13-24	Regional	93.13	237.69	240.86	239.07	240.87	0.000102	0.61	287.30	158.53	0.11
Reach1	1009.981 x-72 (35.13-23)		Bridge									
Reach1	1009.962 35.13-22	2-year	0.77	237.16	237.46	237.37	237.48	0.004106	0.58	1.33	7.45	0.44
Reach1	1009.962 35.13-22	5-year	1.49	237.16	237.51	237.44	237.55	0.007588	0.86	1.73	8.39	0.61
Reach1	1009.962 35.13-22	10-year	14.22	237.16	237.93	237.93	238.19	0.014076	2.29	6.95	37.56	0.98
Reach1	1009.962 35.13-22	25-year	19.23	237.16	238.07	238.07	238.35	0.011485	2.40	9.65	45.33	0.92
Reach1	1009.962 35.13-22	50-year	23.31	237.16	238.15	238.15	238.46	0.011278	2.56	11.27	48.87	0.93
Reach1	1009.962 35.13-22	100-year	27.14	237.16	238.22	238.22	238.56	0.010885	2.68	12.82	51.15	0.92
Reach1	1009.962 35.13-22	Regional	93.13	237.16	239.07	239.07	239.79	0.010253	4.11	30.50	85.23	1.01
Reach1	1009.950 35.13-21	2-year	1.82	237.09	237.32		237.37	0.012633	0.96	1.89	11.57	0.76
Reach1	1009.950 35.13-21	5-year	2.65	237.09	237.38		237.43	0.010453	1.03	2.58	12.36	0.72
Reach1	1009.950 35.13-21	10-year	17.13	237.09	237.87	237.76	238.02	0.006730	1.78	12.11	37.02	0.70
Reach1	1009.950 35.13-21	25-year	22.43	237.09	237.99	237.89	238.15	0.005933	1.87	16.96	42.21	0.67
Reach1	1009.950 35.13-21	50-year	26.60	237.09	238.08		238.24	0.005351	1.91	20.89	44.83	0.65
Reach1	1009.950 35.13-21	100-year	30.69	237.09	238.16		238.32	0.004844	1.93	24.85	47.10	0.63
Reach1	1009.950 35.13-21	Regional	99.66	237.09	239.12		239.30	0.002884	2.36	84.15	87.17	0.54
Reach1	1009.917 35.13-20	2-year	1.82	236.79	237.23		237.24	0.001660	0.46	3.95	15.94	0.29
Reach1	1009.917 35.13-20	5-year	2.65	236.79	237.29		237.30	0.001780	0.54	4.92	16.45	0.31
Reach1	1009.917 35.13-20	10-year	17.13	236.79	237.78		237.86	0.002908	1.22	14.10	21.18	0.46
Reach1	1009.917 35.13-20	25-year	22.43	236.79	237.90		237.99	0.002991	1.37	16.67	22.69	0.48
Reach1	1009.917 35.13-20	50-year	26.60	236.79	237.98		238.09	0.003008	1.47	18.70	24.73	0.49
Reach1	1009.917 35.13-20	100-year	30.69	236.79	238.07		238.19	0.002983	1.55	20.84	27.16	0.50
Reach1	1009.917 35.13-20	Regional	99.66	236.79	238.99		239.21	0.002549	2.22	72.28	77.12	0.51
Reach1	1009.775 35.13-19	2-year	1.82	236.42	236.82		236.85	0.005154	0.84	3.24	26.33	0.52
Reach1	1009.775 35.13-19	5-year	2.65	236.42	236.88		236.91	0.004791	0.92	5.02	33.73	0.52
Reach1	1009.775 35.13-19	10-year	17.13	236.42	237.41		237.46	0.002624	1.31	26.83	44.02	0.45
Reach1	1009.775 35.13-19	25-year	22.43	236.42	237.55		237.61	0.002430	1.40	33.08	45.21	0.45
Reach1	1009.775 35.13-19	50-year	26.60	236.42	237.66		237.71	0.002321	1.46	37.72	46.15	0.44
Reach1	1009.775 35.13-19	100-year	30.69	236.42	237.76		237.82	0.002149	1.49	42.70	47.33	0.43
Reach1	1009.775 35.13-19	Regional	99.66	236.42	238.73		238.85	0.002274	2.27	94.13	58.20	0.49
Reach1	1009.681 35.13-18	2-year	1.82	235.95	236.45		236.48	0.003157	0.85	3.46	21.68	0.43
Reach1	1009.681 35.13-18	5-year	2.65	235.95	236.52		236.56	0.003095	0.94	5.11	24.03	0.44
Reach1	1009.681 35.13-18	10-year	17.13	235.95	237.21		237.25	0.001893	1.35	32.12	52.65	0.40
Reach1	1009.681 35.13-18	25-year	22.43	235.95	237.37		237.41	0.001699	1.40	41.02	56.21	0.39
Reach1	1009.681 35.13-18	50-year	26.60	235.95	237.49		237.53	0.001595	1.43	47.73	62.63	0.38
Reach1	1009.681 35.13-18	100-year	30.69	235.95	237.59		237.64	0.001625	1.52	55.05	69.00	0.39
Reach1	1009.681 35.13-18	Regional	99.66	235.95	238.60		238.67	0.001416	1.98	130.01	78.26	0.40
Reach1	1009.607 35.13-17	2-year	1.82	235.74	236.18		236.21	0.004460	0.78	2.33	9.10	0.49
Reach1	1009.607 35.13-17	5-year	2.65	235.74	236.24		236.28	0.004564	0.91	2.94	9.67	0.51
Reach1	1009.607 35.13-17	10-year	17.13	235.74	236.87	236.65	237.04	0.004510	1.86	12.10	21.05	0.61
Reach1	1009.607 35.13-17	25-year	22.43	235.74	237.01	236.79	237.20	0.004728	2.07	15.08	23.78	0.63
Reach1	1009.607 35.13-17	50-year	26.60	235.74	237.09	236.89	237.32	0.004962	2.24	17.31	28.18	0.66
Reach1	1009.607 35.13-17	100-year	30.69	235.74	237.17	236.97	237.43	0.005136	2.38	19.80	34.24	0.68
Reach1	1009.607 35.13-17	Regional	99.66	235.74	237.94	237.88	238.43	0.006747	3.74	55.12	55.86	0.84
Reach1	1009.462 35.13-16	2-year	1.82	235.12	235.47		235.51	0.005191	0.83	2.19	8.43	0.52
Reach1	1009.462 35.13-16	5-year	2.65	235.12	235.55		235.59	0.004929	0.93	2.86	8.96	0.52
Reach1	1009.462 35.13-16	10-year	17.13	235.12	236.05	236.01	236.23	0.006803	2.00	12.94	37.27	0.72
Reach1	1009.462 35.13-16	25-year	22.43	235.12	236.15	236.11	236.36	0.007221	2.21	16.60	41.31	0.75
Reach1	1009.462 35.13-16	50-year	26.60	235.12	236.21	236.19	236.44	0.007424	2.35	19.28	42.60	0.77
Reach1	1009.462 35.13-16	100-year	30.69	235.12	236.26	236.24	236.52	0.007738	2.49	21.60	43.86	0.79
Reach1	1009.462 35.13-16	Regional	99.66	235.12	236.96	236.90	237.35	0.007712	3.53	59.67	62.33	0.87
Reach1	1009.371 35.13-15	2-year	1.82	234.81	235.19	235.02	235.21	0.002201	0.58	3.13	10.90	0.35
Reach1	1009.371 35.13-15	5-year	2.65	234.81	235.27	235.07	235.29	0.002365	0.67	3.94	11.60	0.37
Reach1	1009.371 35.13-15	10-year	17.13	234.81	235.75	235.57	235.82	0.002844	1.28	24.07	61.32	0.46
Reach1	1009.371 35.13-15	25-year	22.43	234.81	235.84	235.64	235.92	0.002980	1.41	29.56	62.53	0.48
Reach1	1009.371 35.13-15	50-year	26.60	234.81	235.91	235.71	235.99	0.003019	1.49	33.69	63.43	0.49
Reach1	1009.371 35.13-15	100-year	30.69	234.81	235.98	235.76	236.06	0.002892	1.53	38.25	64.19	0.49
Reach1	1009.371 35.13-15	Regional	99.66	234.81	236.73	236.24	236.87	0.002843	2.21	90.39	75.89	0.53

HEC-RAS Plan: Feb2024_Proposed_6hr_Controlled River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1009.169 35.13-14	2-year	1.82	234.16	234.65	234.52	234.68	0.003223	0.73	3.26	26.54	0.42
Reach1	1009.169 35.13-14	5-year	2.65	234.16	234.71	234.57	234.75	0.003190	0.82	5.59	45.37	0.43
Reach1	1009.169 35.13-14	10-year	17.13	234.16	235.07		235.14	0.004894	1.60	23.23	52.25	0.60
Reach1	1009.169 35.13-14	25-year	22.43	234.16	235.17		235.25	0.004618	1.70	28.60	52.86	0.59
Reach1	1009.169 35.13-14	50-year	26.60	234.16	235.24		235.33	0.004489	1.77	32.42	53.18	0.59
Reach1	1009.169 35.13-14	100-year	30.69	234.16	235.27		235.37	0.005383	1.97	33.59	53.27	0.65
Reach1	1009.169 35.13-14	Regional	99.66	234.16	235.80		236.06	0.008606	3.37	62.68	55.76	0.89
Reach1	1009.059 35.13-13	2-year	1.82	233.50	233.86	233.86	233.99	0.017136	1.57	1.29	6.89	0.96
Reach1	1009.059 35.13-13	5-year	2.65	233.50	233.94	233.94	234.08	0.015300	1.74	1.90	9.18	0.94
Reach1	1009.059 35.13-13	10-year	17.13	233.50	234.35	234.35	234.49	0.009403	2.29	14.02	44.69	0.84
Reach1	1009.059 35.13-13	25-year	22.43	233.50	234.39	234.39	234.57	0.011479	2.63	16.06	46.21	0.94
Reach1	1009.059 35.13-13	50-year	26.60	233.50	234.43	234.43	234.63	0.012690	2.85	17.82	51.53	0.99
Reach1	1009.059 35.13-13	100-year	30.69	233.50	234.51	234.51	234.67	0.009842	2.66	21.90	52.53	0.89
Reach1	1009.059 35.13-13	Regional	99.66	233.50	235.00		235.24	0.008820	3.36	54.10	82.00	0.90
Reach1	1008.977 35.13-12	2-year	1.82	232.58	233.09	232.83	233.10	0.001070	0.55	5.42	16.39	0.26
Reach1	1008.977 35.13-12	5-year	2.65	232.58	233.18	232.88	233.19	0.001127	0.64	7.08	18.71	0.28
Reach1	1008.977 35.13-12	10-year	17.13	232.58	233.77	233.44	233.83	0.002541	1.56	28.58	58.52	0.47
Reach1	1008.977 35.13-12	25-year	22.43	232.58	233.87	233.53	233.95	0.002756	1.72	35.21	67.37	0.50
Reach1	1008.977 35.13-12	50-year	26.60	232.58	233.98	233.53	234.05	0.002461	1.72	42.98	76.49	0.47
Reach1	1008.977 35.13-12	100-year	30.69	232.58	234.06	233.77	234.13	0.002431	1.78	48.85	78.62	0.48
Reach1	1008.977 35.13-12	Regional	99.66	232.58	234.57	234.34	234.74	0.004779	3.06	93.27	93.91	0.70
Reach1	1008.763 35.13-11	2-year	1.82	232.04	232.39	232.39	232.49	0.021039	1.41	1.29	6.47	1.01
Reach1	1008.763 35.13-11	5-year	2.65	232.04	232.45	232.45	232.57	0.019420	1.52	1.75	7.36	1.00
Reach1	1008.763 35.13-11	10-year	17.13	232.04	233.10	232.91	233.19	0.003970	1.51	18.90	83.29	0.55
Reach1	1008.763 35.13-11	25-year	22.43	232.04	233.26	233.00	233.34	0.003213	1.53	25.18	96.54	0.51
Reach1	1008.763 35.13-11	50-year	26.60	232.04	233.25	233.05	233.37	0.004689	1.84	24.83	96.01	0.61
Reach1	1008.763 35.13-11	100-year	30.69	232.04	233.31	233.13	233.45	0.004817	1.95	27.37	100.71	0.63
Reach1	1008.763 35.13-11	Regional	99.66	232.04	233.86	233.62	233.96	0.003162	2.12	112.66	137.77	0.55
Reach1	1008.567 35.13-10	2-year	1.82	230.88	231.41		231.44	0.001907	0.76	3.53	9.84	0.35
Reach1	1008.567 35.13-10	5-year	2.65	230.88	231.50		231.53	0.002232	0.92	4.41	10.58	0.39
Reach1	1008.567 35.13-10	10-year	17.13	230.88	232.00	232.00	232.20	0.007163	2.52	16.05	38.83	0.78
Reach1	1008.567 35.13-10	25-year	22.43	230.88	232.03	232.03	232.33	0.010357	3.09	17.46	40.43	0.94
Reach1	1008.567 35.13-10	50-year	26.60	230.88	232.31	232.31	232.48	0.004970	2.49	36.21	95.14	0.68
Reach1	1008.567 35.13-10	100-year	30.69	230.88	232.36	232.36	232.53	0.005166	2.59	40.37	96.48	0.69
Reach1	1008.567 35.13-10	Regional	99.66	230.88	232.74	232.74	233.03	0.009457	4.12	79.90	105.82	0.98
Reach1	1008.456 35.13-09	2-year	1.82	230.68	231.08	230.98	231.12	0.005174	0.83	2.68	17.51	0.52
Reach1	1008.456 35.13-09	5-year	2.65	230.68	231.15	231.06	231.19	0.005044	0.93	3.98	25.70	0.53
Reach1	1008.456 35.13-09	10-year	17.13	230.68	231.60	231.44	231.64	0.002906	1.25	32.84	90.37	0.46
Reach1	1008.456 35.13-09	25-year	22.43	230.68	231.68	231.49	231.73	0.002907	1.34	40.57	94.78	0.47
Reach1	1008.456 35.13-09	50-year	26.60	230.68	231.75	231.54	231.79	0.002821	1.39	46.76	98.39	0.47
Reach1	1008.456 35.13-09	100-year	30.69	230.68	231.79	231.57	231.84	0.002968	1.47	51.12	100.99	0.49
Reach1	1008.456 35.13-09	Regional	99.66	230.68	232.34	231.95	232.43	0.003510	2.18	111.45	115.74	0.57
Reach1	1008.365 35.13-08	2-year	1.82	230.30	230.68	230.55	230.71	0.003881	0.76	2.39	8.48	0.46
Reach1	1008.365 35.13-08	5-year	2.65	230.30	230.76	230.61	230.80	0.003783	0.87	3.10	10.60	0.47
Reach1	1008.365 35.13-08	10-year	17.13	230.30	231.23	231.12	231.34	0.004595	1.70	22.46	72.86	0.60
Reach1	1008.365 35.13-08	25-year	22.43	230.30	231.33	231.24	231.44	0.004353	1.78	31.41	102.48	0.59
Reach1	1008.365 35.13-08	50-year	26.60	230.30	231.38	231.31	231.50	0.004847	1.94	35.94	106.64	0.63
Reach1	1008.365 35.13-08	100-year	30.69	230.30	231.43	231.35	231.54	0.004713	1.97	41.26	107.63	0.62
Reach1	1008.365 35.13-08	Regional	99.66	230.30	231.79	231.75	232.02	0.008439	3.24	82.02	114.97	0.88
Reach1	1008.200 35.13-07	2-year	1.82	229.50	229.79	229.73	229.83	0.007805	1.00	2.34	10.97	0.64
Reach1	1008.200 35.13-07	5-year	2.65	229.50	229.84	229.78	229.90	0.008440	1.18	2.96	12.42	0.68
Reach1	1008.200 35.13-07	10-year	17.13	229.50	230.25	230.25	230.37	0.008106	2.05	23.11	85.43	0.77
Reach1	1008.200 35.13-07	25-year	22.43	229.50	230.30	230.30	230.44	0.009578	2.32	27.02	90.58	0.85
Reach1	1008.200 35.13-07	50-year	26.60	229.50	230.37	230.37	230.49	0.008274	2.29	34.41	108.31	0.80
Reach1	1008.200 35.13-07	100-year	30.69	229.50	230.40	230.40	230.53	0.008781	2.41	37.99	117.66	0.83
Reach1	1008.200 35.13-07	Regional	99.66	229.50	231.02	230.73	231.09	0.003950	2.32	125.03	152.21	0.61
Reach1	1008.094 35.13-06	2-year	2.57	228.90	229.42	229.26	229.44	0.002553	0.72	8.09	54.76	0.39
Reach1	1008.094 35.13-06	5-year	3.86	228.90	229.48	229.33	229.50	0.002609	0.80	11.27	57.30	0.40
Reach1	1008.094 35.13-06	10-year	15.59	228.90	229.78	229.60	229.81	0.002754	1.17	32.82	76.87	0.45
Reach1	1008.094 35.13-06	25-year	21.01	228.90	229.87	229.65	229.90	0.002780	1.28	40.05	79.13	0.46
Reach1	1008.094 35.13-06	50-year	25.40	228.90	229.93	229.68	229.97	0.002849	1.36	45.17	81.22	0.47
Reach1	1008.094 35.13-06	100-year	29.74	228.90	229.99	229.72	230.03	0.002877	1.43	50.19	85.27	0.47
Reach1	1008.094 35.13-06	Regional	103.15	228.90	230.70	230.12	230.77	0.002937	2.10	126.75	148.14	0.53
Reach1	1007.822 35.13-05	2-year	2.57	227.91	228.49		228.50	0.004942	0.49	6.69	34.81	0.24
Reach1	1007.822 35.13-05	5-year	3.86	227.91	228.57		228.58	0.004534	0.53	9.91	46.26	0.24
Reach1	1007.822 35.13-05	10-year	15.59	227.91	228.88		228.89	0.004158	0.70	30.65	71.67	0.25
Reach1	1007.822 35.13-05	25-year	21.01	227.91	228.97		228.99	0.004122	0.74	37.13	72.32	0.25
Reach1	1007.822 35.13-05	50-year	25.40	227.91	229.04		229.06	0.003873	0.76	42.64	72.87	0.25
Reach1	1007.822 35.13-05	100-year	29.74	227.91	229.11		229.13	0.003837	0.79	47.19	73.39	0.25
Reach1	1007.822 35.13-05	Regional	103.15	227.91	229.78		229.83	0.004111	1.14	105.63	127.55	0.28
Reach1	1007.614 35.13-04	2-year	2.57	226.62	227.15		227.17	0.008675	0.57	4.84	16.06	0.31
Reach1	1007.614 35.13-04	5-year	3.86	226.62	227.22		227.24	0.009739	0.68	6.20	23.39	0.34
Reach1	1007.614 35.13-04	10-year	15.59	226.62	227.74		227.78	0.007192	1.01	20.86	41.10	0.33
Reach1	1007.614 35.13-04	25-year	21.01	226.62	227.89		227.93	0.006429	1.06	27.49	47.10	0.32

HEC-RAS Plan: Feb2024_Proposed_12hr_Controlled River: Salt Creek Reach: Reach1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1012.797 34.03-12	2-year	0.88	251.01	251.48	251.26	251.50	0.001910	0.56	1.57	5.07	0.32
Reach1	1012.797 34.03-12	5-year	1.56	251.01	251.62	251.36	251.64	0.002062	0.66	2.46	10.30	0.35
Reach1	1012.797 34.03-12	10-year	12.68	251.01	252.18	251.96	252.22	0.001856	1.16	28.94	77.09	0.38
Reach1	1012.797 34.03-12	25-year	16.70	251.01	252.13		252.22	0.004375	1.72	25.48	76.82	0.58
Reach1	1012.797 34.03-12	50-year	19.84	251.01	252.16		252.26	0.005320	1.93	27.13	76.95	0.64
Reach1	1012.797 34.03-12	100-year	22.85	251.01	252.24		252.33	0.004016	1.78	33.94	77.46	0.57
Reach1	1012.797 34.03-12	Regional	74.63	251.01	253.00		253.07	0.002295	1.96	94.48	82.36	0.47
Reach1	1012.596 34.03-11	2-year	0.88	250.26	250.48	250.48	250.57	0.022604	1.27	0.70	4.31	1.01
Reach1	1012.596 34.03-11	5-year	1.56	250.26	250.56	250.56	250.67	0.020743	1.46	1.07	5.01	1.01
Reach1	1012.596 34.03-11	10-year	12.68	250.26	251.20	251.17	251.48	0.010286	2.39	6.29	19.27	0.87
Reach1	1012.596 34.03-11	25-year	16.70	250.26	251.62		251.69	0.001913	1.38	29.21	69.93	0.41
Reach1	1012.596 34.03-11	50-year	19.84	250.26	251.85		251.88	0.000959	1.10	45.69	73.28	0.30
Reach1	1012.596 34.03-11	100-year	22.85	250.26	252.05		252.07	0.000613	0.96	60.41	74.93	0.24
Reach1	1012.596 34.03-11	Regional	74.63	250.26	252.71		252.77	0.001193	1.69	113.02	85.24	0.36
Reach1	1012.484 34.03-10	2-year	0.88	249.90	250.20	250.04	250.21	0.001079	0.37	2.53	10.47	0.24
Reach1	1012.484 34.03-10	5-year	1.56	249.90	250.31	250.09	250.32	0.001034	0.45	3.71	11.19	0.25
Reach1	1012.484 34.03-10	10-year	12.68	249.90	251.34	250.52	251.34	0.000150	0.40	72.72	99.47	0.11
Reach1	1012.484 34.03-10	25-year	16.70	249.90	251.64	250.70	251.64	0.000097	0.37	103.17	105.15	0.10
Reach1	1012.484 34.03-10	50-year	19.84	249.90	251.85	250.78	251.85	0.000077	0.36	126.07	107.49	0.09
Reach1	1012.484 34.03-10	100-year	22.85	249.90	252.05	250.81	252.05	0.000064	0.35	147.25	109.33	0.08
Reach1	1012.484 34.03-10	Regional	74.63	249.90	252.70	251.18	252.71	0.000206	0.77	221.44	117.42	0.15
Reach1	1012.476 34.03-09	2-year	0.88	249.87	250.19	250.03	250.20	0.001143	0.38	2.34	9.52	0.24
Reach1	1012.476 34.03-09	5-year	1.56	249.87	250.30	250.08	250.31	0.001121	0.46	3.42	10.24	0.25
Reach1	1012.476 34.03-09	10-year	12.68	249.87	251.28	250.51	251.32	0.000716	0.86	14.73	95.26	0.25
Reach1	1012.476 34.03-09	25-year	16.70	249.87	251.57	250.62	251.61	0.000612	0.92	18.22	97.85	0.24
Reach1	1012.476 34.03-09	50-year	19.84	249.87	251.78	250.69	251.83	0.000560	0.96	20.75	98.82	0.23
Reach1	1012.476 34.03-09	100-year	22.85	249.87	251.97	250.76	252.02	0.000523	0.99	23.05	99.56	0.23
Reach1	1012.476 34.03-09	Regional	74.63	249.87	252.70	251.64	252.71	0.000219	0.79	216.90	153.48	0.16
Reach1	1012.466 x-73 (34.03-08)		Culvert									
Reach1	1012.451 34.03-07	2-year	0.88	249.87	250.17	250.02	250.18	0.002054	0.50	2.40	9.89	0.32
Reach1	1012.451 34.03-07	5-year	1.56	249.87	250.27	250.07	250.28	0.002259	0.63	3.36	10.69	0.36
Reach1	1012.451 34.03-07	10-year	12.68	249.87	250.78	250.54	250.92	0.005808	1.90	9.40	45.25	0.67
Reach1	1012.451 34.03-07	25-year	16.70	249.87	250.85	250.67	251.06	0.007474	2.28	10.36	48.19	0.77
Reach1	1012.451 34.03-07	50-year	19.84	249.87	250.90	250.76	251.16	0.008729	2.56	11.01	49.46	0.84
Reach1	1012.451 34.03-07	100-year	22.85	249.87	250.95	250.83	251.25	0.009816	2.80	11.61	53.10	0.90
Reach1	1012.451 34.03-07	Regional	74.63	249.87	251.79	251.79	252.66	0.012680	4.79	22.48	100.21	1.13
Reach1	1012.447 34.03-06	2-year	0.90	249.87	250.15		250.17	0.003092	0.57	1.59	7.39	0.39
Reach1	1012.447 34.03-06	5-year	1.60	249.87	250.24		250.27	0.003307	0.70	2.29	8.47	0.42
Reach1	1012.447 34.03-06	10-year	12.98	249.87	250.76	250.58	250.89	0.005170	1.70	11.42	48.84	0.62
Reach1	1012.447 34.03-06	25-year	17.09	249.87	250.84	250.81	250.99	0.005762	1.91	16.11	64.73	0.67
Reach1	1012.447 34.03-06	50-year	20.31	249.87	250.89	250.88	251.06	0.005712	1.99	19.91	65.34	0.67
Reach1	1012.447 34.03-06	100-year	23.38	249.87	250.95	250.92	251.11	0.005506	2.03	23.56	65.97	0.67
Reach1	1012.447 34.03-06	Regional	76.38	249.87	251.56		251.75	0.004848	2.66	67.67	80.78	0.68
Reach1	1012.394 34.03-05	2-year	0.90	249.54	249.74	249.74	249.81	0.024156	1.14	0.79	6.02	1.01
Reach1	1012.394 34.03-05	5-year	1.60	249.54	249.81	249.81	249.89	0.022090	1.30	1.23	7.20	1.01
Reach1	1012.394 34.03-05	10-year	12.98	249.54	250.38	250.38	250.56	0.007716	1.94	9.87	45.05	0.75
Reach1	1012.394 34.03-05	25-year	17.09	249.54	250.48	250.48	250.66	0.006972	2.03	15.27	56.44	0.73
Reach1	1012.394 34.03-05	50-year	20.31	249.54	250.53	250.53	250.72	0.007044	2.13	18.31	57.45	0.74
Reach1	1012.394 34.03-05	100-year	23.38	249.54	250.57	250.57	250.77	0.007319	2.24	20.68	58.15	0.76
Reach1	1012.394 34.03-05	Regional	76.38	249.54	251.06	251.06	251.39	0.009235	3.37	51.26	69.98	0.92
Reach1	1012.190 34.03-04	2-year	0.90	248.52	248.74		248.75	0.002101	0.43	2.67	15.83	0.32
Reach1	1012.190 34.03-04	5-year	1.60	248.52	248.82		248.84	0.001912	0.52	3.98	16.55	0.32
Reach1	1012.190 34.03-04	10-year	12.98	248.52	249.32		249.37	0.002630	1.23	24.82	108.33	0.45
Reach1	1012.190 34.03-04	25-year	17.09	248.52	249.40		249.45	0.002607	1.30	33.80	121.22	0.45
Reach1	1012.190 34.03-04	50-year	20.31	248.52	249.45		249.50	0.002593	1.35	40.03	124.36	0.46
Reach1	1012.190 34.03-04	100-year	23.38	248.52	249.49		249.54	0.002574	1.39	45.44	126.21	0.46
Reach1	1012.190 34.03-04	Regional	76.38	248.52	250.07		250.12	0.001961	1.67	126.48	155.34	0.43
Reach1	1011.995 34.03-03	2-year	0.90	247.86	248.18		248.20	0.004112	0.67	1.35	6.04	0.45
Reach1	1011.995 34.03-03	5-year	1.60	247.86	248.28		248.32	0.003991	0.77	2.07	7.55	0.46
Reach1	1011.995 34.03-03	10-year	12.98	247.86	248.82		248.88	0.002802	1.28	22.73	74.06	0.46
Reach1	1011.995 34.03-03	25-year	17.09	247.86	248.94		248.99	0.002511	1.33	31.75	83.39	0.45
Reach1	1011.995 34.03-03	50-year	20.31	247.86	249.00		249.06	0.002415	1.36	37.35	86.54	0.44
Reach1	1011.995 34.03-03	100-year	23.38	247.86	249.07		249.12	0.002208	1.36	43.45	89.44	0.43
Reach1	1011.995 34.03-03	Regional	76.38	247.86	249.71		249.78	0.002109	1.83	105.89	104.88	0.45
Reach1	1011.786 34.03-02	2-year	0.90	246.99	247.41		247.43	0.003307	0.62	1.45	6.17	0.41
Reach1	1011.786 34.03-02	5-year	1.60	246.99	247.52		247.55	0.003359	0.72	2.21	7.53	0.43
Reach1	1011.786 34.03-02	10-year	12.98	246.99	248.05		248.15	0.004969	1.50	10.70	32.00	0.59
Reach1	1011.786 34.03-02	25-year	17.09	246.99	248.10	248.00	248.25	0.006239	1.78	12.74	39.65	0.68
Reach1	1011.786 34.03-02	50-year	20.31	246.99	248.15	248.08	248.32	0.006738	1.93	14.73	42.82	0.71
Reach1	1011.786 34.03-02	100-year	23.38	246.99	248.17	248.14	248.38	0.008075	2.15	15.60	45.52	0.78
Reach1	1011.786 34.03-02	Regional	76.38	246.99	248.72	248.72	249.08	0.008542	3.16	47.40	70.62	0.88
Reach1	1011.625 34.03-01	2-year	0.90	246.31	246.61		246.65	0.007833	0.84	1.13	6.71	0.61
Reach1	1011.625 34.03-01	5-year	1.60	246.31	246.69		246.74	0.008247	1.00	1.73	8.28	0.65

HEC-RAS Plan: Feb2024_Proposed_12hr_Controlled River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1011.625 34.03-01	10-year	12.98	246.31	247.22	247.17	247.33	0.005828	1.73	17.07	75.65	0.65
Reach1	1011.625 34.03-01	25-year	17.09	246.31	247.32		247.41	0.004891	1.71	24.35	84.67	0.61
Reach1	1011.625 34.03-01	50-year	20.31	246.31	247.40		247.49	0.004493	1.75	32.61	115.45	0.59
Reach1	1011.625 34.03-01	100-year	23.38	246.31	247.45	247.31	247.53	0.004014	1.72	38.78	117.08	0.57
Reach1	1011.625 34.03-01	Regional	76.38	246.31	248.12		248.16	0.001912	1.70	130.77	157.20	0.43
Reach1	1011.370 34.01-02	2-year	1.10	244.89	245.18		245.20	0.004454	0.64	1.72	8.88	0.46
Reach1	1011.370 34.01-02	5-year	1.94	244.89	245.27		245.30	0.004333	0.76	2.56	10.23	0.48
Reach1	1011.370 34.01-02	10-year	15.99	244.89	245.76	245.64	245.90	0.005965	1.81	12.75	25.46	0.67
Reach1	1011.370 34.01-02	25-year	20.99	244.89	245.85	245.74	246.03	0.006643	2.06	15.09	26.50	0.72
Reach1	1011.370 34.01-02	50-year	24.90	244.89	245.91	245.81	246.13	0.007106	2.24	16.82	27.77	0.75
Reach1	1011.370 34.01-02	100-year	28.63	244.89	245.97	245.86	246.21	0.007576	2.40	18.38	29.24	0.79
Reach1	1011.370 34.01-02	Regional	93.13	244.89	246.64	246.64	247.21	0.010128	3.96	40.77	36.87	0.99
Reach1	1011.241 34.01-01	2-year	1.10	244.29	244.58	244.50	244.61	0.004739	0.73	1.80	12.83	0.49
Reach1	1011.241 34.01-01	5-year	1.94	244.29	244.66	244.57	244.69	0.005120	0.91	3.20	24.15	0.53
Reach1	1011.241 34.01-01	10-year	15.99	244.29	245.03	244.97	245.12	0.006568	1.78	21.96	62.08	0.69
Reach1	1011.241 34.01-01	25-year	20.99	244.29	245.11	245.03	245.20	0.006504	1.91	26.99	64.40	0.70
Reach1	1011.241 34.01-01	50-year	24.90	244.29	245.17	245.06	245.27	0.006442	2.00	30.92	70.64	0.71
Reach1	1011.241 34.01-01	100-year	28.63	244.29	245.22	245.10	245.32	0.006374	2.07	34.67	73.84	0.71
Reach1	1011.241 34.01-01	Regional	93.13	244.29	245.89	245.53	246.01	0.004653	2.59	91.96	95.24	0.67
Reach1	1011.186 35.13-33	2-year	1.10	243.83	243.99	243.98	244.04	0.038076	1.19	1.35	13.23	1.21
Reach1	1011.186 35.13-33	5-year	1.94	243.83	244.05	244.02	244.12	0.033678	1.42	2.27	19.20	1.21
Reach1	1011.186 35.13-33	10-year	15.99	243.83	244.49	244.47	244.65	0.013512	2.32	14.29	42.58	0.97
Reach1	1011.186 35.13-33	25-year	20.99	243.83	244.58	244.55	244.74	0.013164	2.51	17.86	43.54	0.98
Reach1	1011.186 35.13-33	50-year	24.90	243.83	244.63	244.60	244.81	0.013284	2.65	20.22	44.14	0.99
Reach1	1011.186 35.13-33	100-year	28.63	243.83	244.68	244.65	244.87	0.013215	2.76	22.44	44.63	1.00
Reach1	1011.186 35.13-33	Regional	93.13	243.83	245.40	245.18	245.68	0.009503	3.63	56.22	48.89	0.95
Reach1	1010.985 35.13-32	2-year	1.10	241.92	242.29	242.20	242.32	0.003740	0.70	2.23	18.80	0.44
Reach1	1010.985 35.13-32	5-year	1.94	241.92	242.37	242.28	242.40	0.003881	0.85	4.00	26.26	0.47
Reach1	1010.985 35.13-32	10-year	15.99	241.92	242.81		242.91	0.006283	1.89	17.71	34.53	0.69
Reach1	1010.985 35.13-32	25-year	20.99	241.92	242.91		243.03	0.006301	2.06	21.36	35.29	0.70
Reach1	1010.985 35.13-32	50-year	24.90	241.92	242.99		243.11	0.006134	2.16	24.25	35.88	0.71
Reach1	1010.985 35.13-32	100-year	28.63	241.92	243.06		243.19	0.006058	2.25	26.80	36.39	0.71
Reach1	1010.985 35.13-32	Regional	93.13	241.92	243.80		244.08	0.007414	3.57	64.72	64.03	0.86
Reach1	1010.760 35.13-31	2-year	1.10	240.25	240.53	240.53	240.60	0.023556	1.23	0.89	5.98	1.02
Reach1	1010.760 35.13-31	5-year	1.94	240.25	240.60	240.60	240.70	0.021505	1.41	1.38	7.01	1.02
Reach1	1010.760 35.13-31	10-year	15.99	240.25	241.20	241.20	241.40	0.008092	2.17	13.37	40.03	0.78
Reach1	1010.760 35.13-31	25-year	20.99	240.25	241.29	241.29	241.51	0.008311	2.36	16.97	41.09	0.81
Reach1	1010.760 35.13-31	50-year	24.90	240.25	241.35	241.35	241.58	0.008794	2.53	19.20	41.74	0.84
Reach1	1010.760 35.13-31	100-year	28.63	240.25	241.39	241.39	241.65	0.009156	2.67	21.22	42.32	0.86
Reach1	1010.760 35.13-31	Regional	93.13	240.25	242.11	242.11	242.48	0.008329	3.67	62.49	75.11	0.90
Reach1	1010.657 35.13-30	2-year	1.10	239.75	239.99		240.00	0.001971	0.43	2.71	15.12	0.31
Reach1	1010.657 35.13-30	5-year	1.94	239.75	240.07		240.08	0.002062	0.53	4.01	18.06	0.33
Reach1	1010.657 35.13-30	10-year	15.99	239.75	240.45		240.52	0.004244	1.35	20.18	55.14	0.55
Reach1	1010.657 35.13-30	25-year	20.99	239.75	240.52		240.61	0.004617	1.51	24.17	56.36	0.58
Reach1	1010.657 35.13-30	50-year	24.90	239.75	240.58		240.67	0.004737	1.61	27.26	57.20	0.60
Reach1	1010.657 35.13-30	100-year	28.63	239.75	240.64		240.73	0.004577	1.66	30.61	57.80	0.59
Reach1	1010.657 35.13-30	Regional	93.13	239.75	241.11		241.38	0.007407	2.89	59.23	61.71	0.81
Reach1	1010.471 35.13-29	2-year	1.10	238.92	239.05	239.05	239.09	0.026350	0.96	1.22	13.60	1.00
Reach1	1010.471 35.13-29	5-year	1.94	238.92	239.09	239.09	239.15	0.024708	1.15	1.83	15.02	1.02
Reach1	1010.471 35.13-29	10-year	15.99	238.92	239.56		239.64	0.005347	1.43	18.22	51.30	0.61
Reach1	1010.471 35.13-29	25-year	20.99	238.92	239.66		239.74	0.004678	1.49	24.75	76.13	0.58
Reach1	1010.471 35.13-29	50-year	24.90	238.92	239.72		239.81	0.004551	1.56	29.62	85.28	0.58
Reach1	1010.471 35.13-29	100-year	28.63	238.92	239.76		239.86	0.004782	1.67	33.64	88.76	0.60
Reach1	1010.471 35.13-29	Regional	93.13	238.92	240.95		240.99	0.000756	1.23	176.22	138.70	0.28
Reach1	1010.375 35.13-28	2-year	1.10	238.10	238.46		238.47	0.002667	0.54	2.04	9.16	0.37
Reach1	1010.375 35.13-28	5-year	1.94	238.10	238.57		238.59	0.002357	0.63	3.08	9.99	0.36
Reach1	1010.375 35.13-28	10-year	15.99	238.10	239.23		239.30	0.002410	1.29	21.66	81.24	0.44
Reach1	1010.375 35.13-28	25-year	20.99	238.10	239.29		239.39	0.002983	1.50	27.05	95.97	0.49
Reach1	1010.375 35.13-28	50-year	24.90	238.10	239.35		239.45	0.003021	1.58	33.67	112.92	0.50
Reach1	1010.375 35.13-28	100-year	28.63	238.10	239.43		239.52	0.002708	1.57	43.20	129.17	0.48
Reach1	1010.375 35.13-28	Regional	93.13	238.10	240.93		240.94	0.000207	0.77	324.42	207.48	0.15
Reach1	1010.272 35.13-27	2-year	1.10	237.76	238.17		238.19	0.002815	0.62	1.76	6.57	0.39
Reach1	1010.272 35.13-27	5-year	1.94	237.76	238.28		238.31	0.003060	0.76	2.57	7.72	0.42
Reach1	1010.272 35.13-27	10-year	15.99	237.76	238.95	238.72	239.04	0.002821	1.44	27.30	151.74	0.48
Reach1	1010.272 35.13-27	25-year	20.99	237.76	239.11		239.16	0.001543	1.18	53.38	166.79	0.36
Reach1	1010.272 35.13-27	50-year	24.90	237.76	239.24		239.26	0.001020	1.03	74.30	173.99	0.30
Reach1	1010.272 35.13-27	100-year	28.63	237.76	239.35		239.37	0.000765	0.95	94.42	190.59	0.26
Reach1	1010.272 35.13-27	Regional	93.13	237.76	240.92		240.93	0.000094	0.56	463.75	255.99	0.11
Reach1	1010.177 35.13-26	2-year	1.10	237.68	238.09		238.09	0.000462	0.27	4.03	13.62	0.16
Reach1	1010.177 35.13-26	5-year	1.94	237.68	238.19		238.20	0.000583	0.36	5.46	15.59	0.19
Reach1	1010.177 35.13-26	10-year	15.99	237.68	238.83		238.86	0.001106	0.93	24.05	45.58	0.30
Reach1	1010.177 35.13-26	25-year	20.99	237.68	239.00		239.04	0.000994	0.98	32.43	49.42	0.29
Reach1	1010.177 35.13-26	50-year	24.90	237.68	239.13		239.17	0.000894	1.00	39.07	50.92	0.28
Reach1	1010.177 35.13-26	100-year	28.63	237.68	239.25		239.29	0.000819	1.02	45.15	51.32	0.27

HEC-RAS Plan: Feb2024_Proposed_12hr_Controlled River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1010.177 35.13-26	Regional	93.13	237.68	240.86		240.91	0.000387	1.17	159.20	101.49	0.21
Reach1	1010.003 35.13-25	2-year	1.10	237.68	237.93		237.94	0.002335	0.45	2.57	22.57	0.33
Reach1	1010.003 35.13-25	5-year	1.94	237.68	238.00		238.02	0.002423	0.55	4.49	30.39	0.35
Reach1	1010.003 35.13-25	10-year	15.99	237.68	238.73		238.74	0.000555	0.66	49.82	82.13	0.21
Reach1	1010.003 35.13-25	25-year	20.99	237.68	238.93		238.94	0.000438	0.66	67.17	97.28	0.20
Reach1	1010.003 35.13-25	50-year	24.90	237.68	239.07		239.08	0.000387	0.67	84.01	132.12	0.19
Reach1	1010.003 35.13-25	100-year	28.63	237.68	239.20		239.21	0.000322	0.65	101.62	135.43	0.17
Reach1	1010.003 35.13-25	Regional	93.13	237.68	240.86		240.87	0.000111	0.64	349.21	162.03	0.12
Reach1	1009.993 35.13-24	2-year	1.10	237.69	237.91	237.83	237.92	0.001952	0.37	2.99	22.83	0.30
Reach1	1009.993 35.13-24	5-year	1.94	237.69	237.98	237.86	237.99	0.001787	0.45	4.36	25.80	0.30
Reach1	1009.993 35.13-24	10-year	15.99	237.69	238.69	238.17	238.73	0.001027	0.87	18.93	78.59	0.29
Reach1	1009.993 35.13-24	25-year	20.99	237.69	238.88	238.25	238.92	0.000953	0.95	22.87	103.04	0.29
Reach1	1009.993 35.13-24	50-year	24.90	237.69	239.01	238.31	239.06	0.000909	1.00	25.75	112.11	0.29
Reach1	1009.993 35.13-24	100-year	28.63	237.69	239.14	238.37	239.19	0.000874	1.04	28.37	121.23	0.28
Reach1	1009.993 35.13-24	Regional	93.13	237.69	240.86	239.07	240.87	0.000102	0.61	287.30	158.53	0.11
Reach1	1009.981 x-72 (35.13-23)		Bridge									
Reach1	1009.962 35.13-22	2-year	1.10	237.16	237.46	237.40	237.50	0.007857	0.81	1.36	7.53	0.61
Reach1	1009.962 35.13-22	5-year	1.94	237.16	237.51	237.48	237.58	0.012895	1.13	1.72	8.38	0.79
Reach1	1009.962 35.13-22	10-year	15.99	237.16	237.99	237.99	238.25	0.011971	2.28	8.19	43.04	0.92
Reach1	1009.962 35.13-22	25-year	20.99	237.16	238.10	238.10	238.40	0.011236	2.46	10.41	47.75	0.92
Reach1	1009.962 35.13-22	50-year	24.90	237.16	238.18	238.18	238.50	0.011069	2.61	11.93	49.74	0.92
Reach1	1009.962 35.13-22	100-year	28.63	237.16	238.25	238.25	238.59	0.010801	2.72	13.38	52.42	0.93
Reach1	1009.962 35.13-22	Regional	93.13	237.16	239.07	239.07	239.79	0.010253	4.11	30.50	85.23	1.01
Reach1	1009.950 35.13-21	2-year	1.82	237.09	237.32		237.37	0.012633	0.96	1.89	11.57	0.76
Reach1	1009.950 35.13-21	5-year	2.65	237.09	237.38		237.43	0.010453	1.03	2.58	12.36	0.72
Reach1	1009.950 35.13-21	10-year	17.13	237.09	237.87	237.76	238.02	0.006730	1.78	12.11	37.02	0.70
Reach1	1009.950 35.13-21	25-year	22.43	237.09	237.99	237.89	238.15	0.005933	1.87	16.96	42.21	0.67
Reach1	1009.950 35.13-21	50-year	26.60	237.09	238.08		238.24	0.005351	1.91	20.89	44.83	0.65
Reach1	1009.950 35.13-21	100-year	30.69	237.09	238.16		238.32	0.004844	1.93	24.85	47.10	0.63
Reach1	1009.950 35.13-21	Regional	99.66	237.09	239.12		239.30	0.002884	2.36	84.15	87.17	0.54
Reach1	1009.917 35.13-20	2-year	1.82	236.79	237.23		237.24	0.001660	0.46	3.95	15.94	0.29
Reach1	1009.917 35.13-20	5-year	2.65	236.79	237.29		237.30	0.001780	0.54	4.92	16.45	0.31
Reach1	1009.917 35.13-20	10-year	17.13	236.79	237.78		237.86	0.002908	1.22	14.10	21.18	0.46
Reach1	1009.917 35.13-20	25-year	22.43	236.79	237.90		237.99	0.002991	1.37	16.67	22.69	0.48
Reach1	1009.917 35.13-20	50-year	26.60	236.79	237.98		238.09	0.003008	1.47	18.70	24.73	0.49
Reach1	1009.917 35.13-20	100-year	30.69	236.79	238.07		238.19	0.002983	1.55	20.84	27.16	0.50
Reach1	1009.917 35.13-20	Regional	99.66	236.79	238.99		239.21	0.002549	2.22	72.28	77.12	0.51
Reach1	1009.775 35.13-19	2-year	1.82	236.42	236.82		236.85	0.005154	0.84	3.24	26.33	0.52
Reach1	1009.775 35.13-19	5-year	2.65	236.42	236.88		236.91	0.004791	0.92	5.02	33.73	0.52
Reach1	1009.775 35.13-19	10-year	17.13	236.42	237.41		237.46	0.002624	1.31	26.83	44.02	0.45
Reach1	1009.775 35.13-19	25-year	22.43	236.42	237.55		237.61	0.002430	1.40	33.08	45.21	0.45
Reach1	1009.775 35.13-19	50-year	26.60	236.42	237.66		237.71	0.002321	1.46	37.72	46.15	0.44
Reach1	1009.775 35.13-19	100-year	30.69	236.42	237.76		237.82	0.002149	1.49	42.70	47.33	0.43
Reach1	1009.775 35.13-19	Regional	99.66	236.42	238.73		238.85	0.002274	2.27	94.13	58.20	0.49
Reach1	1009.681 35.13-18	2-year	1.82	235.95	236.45		236.48	0.003157	0.85	3.46	21.68	0.43
Reach1	1009.681 35.13-18	5-year	2.65	235.95	236.52		236.56	0.003095	0.94	5.11	24.03	0.44
Reach1	1009.681 35.13-18	10-year	17.13	235.95	237.21		237.25	0.001893	1.35	32.12	52.65	0.40
Reach1	1009.681 35.13-18	25-year	22.43	235.95	237.37		237.41	0.001699	1.40	41.02	56.21	0.39
Reach1	1009.681 35.13-18	50-year	26.60	235.95	237.49		237.53	0.001595	1.43	47.73	62.63	0.38
Reach1	1009.681 35.13-18	100-year	30.69	235.95	237.59		237.64	0.001625	1.52	55.05	69.00	0.39
Reach1	1009.681 35.13-18	Regional	99.66	235.95	238.60		238.67	0.001416	1.98	130.01	78.26	0.40
Reach1	1009.607 35.13-17	2-year	1.82	235.74	236.18		236.21	0.004460	0.78	2.33	9.10	0.49
Reach1	1009.607 35.13-17	5-year	2.65	235.74	236.24		236.28	0.004564	0.91	2.94	9.67	0.51
Reach1	1009.607 35.13-17	10-year	17.13	235.74	236.87	236.65	237.04	0.004510	1.86	12.10	21.05	0.61
Reach1	1009.607 35.13-17	25-year	22.43	235.74	237.01	236.79	237.20	0.004728	2.07	15.08	23.78	0.63
Reach1	1009.607 35.13-17	50-year	26.60	235.74	237.09	236.89	237.32	0.004962	2.24	17.31	28.18	0.66
Reach1	1009.607 35.13-17	100-year	30.69	235.74	237.17	236.97	237.43	0.005136	2.38	19.80	34.24	0.68
Reach1	1009.607 35.13-17	Regional	99.66	235.74	237.94	237.88	238.43	0.006747	3.74	55.12	55.86	0.84
Reach1	1009.462 35.13-16	2-year	1.82	235.12	235.47		235.51	0.005191	0.83	2.19	8.43	0.52
Reach1	1009.462 35.13-16	5-year	2.65	235.12	235.55		235.59	0.004929	0.93	2.86	8.96	0.52
Reach1	1009.462 35.13-16	10-year	17.13	235.12	236.05	236.01	236.23	0.006803	2.00	12.94	37.27	0.72
Reach1	1009.462 35.13-16	25-year	22.43	235.12	236.15	236.11	236.36	0.007221	2.21	16.60	41.31	0.75
Reach1	1009.462 35.13-16	50-year	26.60	235.12	236.21	236.19	236.44	0.007424	2.35	19.28	42.60	0.77
Reach1	1009.462 35.13-16	100-year	30.69	235.12	236.26	236.24	236.52	0.007738	2.49	21.60	43.86	0.79
Reach1	1009.462 35.13-16	Regional	99.66	235.12	236.96	236.90	237.35	0.007712	3.53	59.67	62.33	0.87
Reach1	1009.371 35.13-15	2-year	1.82	234.81	235.19	235.02	235.21	0.002201	0.58	3.13	10.90	0.35
Reach1	1009.371 35.13-15	5-year	2.65	234.81	235.27	235.07	235.29	0.002365	0.67	3.94	11.60	0.37
Reach1	1009.371 35.13-15	10-year	17.13	234.81	235.75	235.57	235.82	0.002844	1.28	24.07	61.32	0.46
Reach1	1009.371 35.13-15	25-year	22.43	234.81	235.84	235.64	235.92	0.002980	1.41	29.56	62.53	0.48
Reach1	1009.371 35.13-15	50-year	26.60	234.81	235.91	235.71	235.99	0.003019	1.49	33.69	63.43	0.49
Reach1	1009.371 35.13-15	100-year	30.69	234.81	235.98	235.76	236.06	0.002892	1.53	38.25	64.19	0.49
Reach1	1009.371 35.13-15	Regional	99.66	234.81	236.73	236.24	236.87	0.002843	2.21	90.39	75.89	0.53

HEC-RAS Plan: Feb2024_Proposed_12hr_Controlled River: Salt Creek Reach: Reach1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach1	1009.169 35.13-14	2-year	1.82	234.16	234.65	234.52	234.68	0.003223	0.73	3.26	26.54	0.42
Reach1	1009.169 35.13-14	5-year	2.65	234.16	234.71	234.57	234.75	0.003190	0.82	5.59	45.37	0.43
Reach1	1009.169 35.13-14	10-year	17.13	234.16	235.07		235.14	0.004894	1.60	23.23	52.25	0.60
Reach1	1009.169 35.13-14	25-year	22.43	234.16	235.17		235.25	0.004618	1.70	28.60	52.86	0.59
Reach1	1009.169 35.13-14	50-year	26.60	234.16	235.24		235.33	0.004489	1.77	32.42	53.18	0.59
Reach1	1009.169 35.13-14	100-year	30.69	234.16	235.27		235.37	0.005383	1.97	33.59	53.27	0.65
Reach1	1009.169 35.13-14	Regional	99.66	234.16	235.80		236.06	0.008606	3.37	62.68	55.76	0.89
Reach1	1009.059 35.13-13	2-year	1.82	233.50	233.86	233.86	233.99	0.017136	1.57	1.29	6.89	0.96
Reach1	1009.059 35.13-13	5-year	2.65	233.50	233.94	233.94	234.08	0.015300	1.74	1.90	9.18	0.94
Reach1	1009.059 35.13-13	10-year	17.13	233.50	234.35	234.35	234.49	0.009403	2.29	14.02	44.69	0.84
Reach1	1009.059 35.13-13	25-year	22.43	233.50	234.39	234.39	234.57	0.011479	2.63	16.06	46.21	0.94
Reach1	1009.059 35.13-13	50-year	26.60	233.50	234.43	234.43	234.63	0.012690	2.85	17.82	51.53	0.99
Reach1	1009.059 35.13-13	100-year	30.69	233.50	234.51	234.51	234.67	0.009842	2.66	21.90	52.53	0.89
Reach1	1009.059 35.13-13	Regional	99.66	233.50	235.00		235.24	0.008820	3.36	54.10	82.00	0.90
Reach1	1008.977 35.13-12	2-year	1.82	232.58	233.09	232.83	233.10	0.001070	0.55	5.42	16.39	0.26
Reach1	1008.977 35.13-12	5-year	2.65	232.58	233.18	232.88	233.19	0.001127	0.64	7.08	18.71	0.28
Reach1	1008.977 35.13-12	10-year	17.13	232.58	233.77	233.44	233.83	0.002541	1.56	28.58	58.52	0.47
Reach1	1008.977 35.13-12	25-year	22.43	232.58	233.87	233.53	233.95	0.002756	1.72	35.21	67.37	0.50
Reach1	1008.977 35.13-12	50-year	26.60	232.58	233.98	233.53	234.05	0.002461	1.72	42.98	76.49	0.47
Reach1	1008.977 35.13-12	100-year	30.69	232.58	234.06	233.77	234.13	0.002431	1.78	48.85	78.62	0.48
Reach1	1008.977 35.13-12	Regional	99.66	232.58	234.57	234.34	234.74	0.004779	3.06	93.27	93.91	0.70
Reach1	1008.763 35.13-11	2-year	1.82	232.04	232.39	232.39	232.49	0.021039	1.41	1.29	6.47	1.01
Reach1	1008.763 35.13-11	5-year	2.65	232.04	232.45	232.45	232.57	0.019420	1.52	1.75	7.36	1.00
Reach1	1008.763 35.13-11	10-year	17.13	232.04	233.10	232.91	233.19	0.003970	1.51	18.90	83.29	0.55
Reach1	1008.763 35.13-11	25-year	22.43	232.04	233.26	233.00	233.34	0.003213	1.53	25.18	96.54	0.51
Reach1	1008.763 35.13-11	50-year	26.60	232.04	233.25	233.05	233.37	0.004689	1.84	24.83	96.01	0.61
Reach1	1008.763 35.13-11	100-year	30.69	232.04	233.31	233.13	233.45	0.004817	1.95	27.37	100.71	0.63
Reach1	1008.763 35.13-11	Regional	99.66	232.04	233.86	233.62	233.96	0.003162	2.12	112.66	137.77	0.55
Reach1	1008.567 35.13-10	2-year	1.82	230.88	231.41		231.44	0.001895	0.76	3.54	9.84	0.35
Reach1	1008.567 35.13-10	5-year	2.65	230.88	231.50		231.53	0.002233	0.92	4.41	10.58	0.39
Reach1	1008.567 35.13-10	10-year	17.13	230.88	232.00	232.00	232.20	0.007163	2.52	16.05	38.83	0.78
Reach1	1008.567 35.13-10	25-year	22.43	230.88	232.03	232.03	232.33	0.010357	3.09	17.46	40.43	0.94
Reach1	1008.567 35.13-10	50-year	26.60	230.88	232.31	232.31	232.48	0.004970	2.49	36.21	95.14	0.68
Reach1	1008.567 35.13-10	100-year	30.69	230.88	232.36	232.36	232.53	0.005166	2.59	40.37	96.48	0.69
Reach1	1008.567 35.13-10	Regional	99.66	230.88	232.74	232.74	233.03	0.009457	4.12	79.90	105.82	0.98
Reach1	1008.456 35.13-09	2-year	1.82	230.68	231.08	230.98	231.12	0.005309	0.84	2.65	17.35	0.53
Reach1	1008.456 35.13-09	5-year	2.65	230.68	231.15	231.06	231.19	0.005020	0.93	3.99	25.78	0.53
Reach1	1008.456 35.13-09	10-year	17.13	230.68	231.60	231.44	231.64	0.002906	1.25	32.84	90.37	0.46
Reach1	1008.456 35.13-09	25-year	22.43	230.68	231.68	231.49	231.73	0.002907	1.34	40.57	94.78	0.47
Reach1	1008.456 35.13-09	50-year	26.60	230.68	231.75	231.54	231.79	0.002821	1.39	46.76	98.39	0.47
Reach1	1008.456 35.13-09	100-year	30.69	230.68	231.79	231.57	231.84	0.002985	1.47	51.01	100.92	0.49
Reach1	1008.456 35.13-09	Regional	99.66	230.68	232.34	231.95	232.43	0.003510	2.18	111.45	115.74	0.57
Reach1	1008.365 35.13-08	2-year	1.82	230.30	230.69	230.55	230.72	0.003718	0.75	2.42	8.53	0.45
Reach1	1008.365 35.13-08	5-year	2.65	230.30	230.76	230.61	230.80	0.003685	0.86	3.13	10.69	0.46
Reach1	1008.365 35.13-08	10-year	17.13	230.30	231.23	231.12	231.34	0.004595	1.70	22.46	72.86	0.60
Reach1	1008.365 35.13-08	25-year	22.43	230.30	231.33	231.24	231.44	0.004353	1.78	31.41	102.48	0.59
Reach1	1008.365 35.13-08	50-year	26.60	230.30	231.38	231.31	231.50	0.004847	1.94	35.94	106.64	0.63
Reach1	1008.365 35.13-08	100-year	30.69	230.30	231.43	231.35	231.54	0.004630	1.96	41.58	107.68	0.62
Reach1	1008.365 35.13-08	Regional	99.66	230.30	231.79	231.75	232.02	0.008439	3.24	82.02	114.97	0.88
Reach1	1008.200 35.13-07	2-year	1.82	229.50	229.78	229.73	229.83	0.008475	1.03	2.28	10.93	0.66
Reach1	1008.200 35.13-07	5-year	2.65	229.50	229.84	229.78	229.90	0.008862	1.20	2.91	12.33	0.70
Reach1	1008.200 35.13-07	10-year	17.13	229.50	230.25	230.25	230.37	0.008106	2.05	23.11	85.43	0.77
Reach1	1008.200 35.13-07	25-year	22.43	229.50	230.30	230.30	230.44	0.009578	2.32	27.02	90.58	0.85
Reach1	1008.200 35.13-07	50-year	26.60	229.50	230.37	230.37	230.49	0.008274	2.29	34.41	108.31	0.80
Reach1	1008.200 35.13-07	100-year	30.69	229.50	230.40	230.40	230.54	0.008924	2.43	38.08	120.85	0.84
Reach1	1008.200 35.13-07	Regional	99.66	229.50	231.02	230.73	231.09	0.003950	2.32	125.03	152.21	0.61
Reach1	1008.094 35.13-06	2-year	1.89	228.90	229.38	229.22	229.39	0.002502	0.66	5.73	45.06	0.37
Reach1	1008.094 35.13-06	5-year	2.75	228.90	229.43	229.26	229.45	0.002566	0.73	8.57	55.25	0.39
Reach1	1008.094 35.13-06	10-year	17.73	228.90	229.81	229.62	229.84	0.002764	1.21	35.77	77.39	0.45
Reach1	1008.094 35.13-06	25-year	23.22	228.90	229.90	229.67	229.94	0.002833	1.32	42.59	80.43	0.46
Reach1	1008.094 35.13-06	50-year	27.53	228.90	229.96	229.70	230.00	0.002872	1.39	47.57	82.15	0.47
Reach1	1008.094 35.13-06	100-year	31.77	228.90	230.02	229.73	230.06	0.002867	1.45	52.65	86.98	0.48
Reach1	1008.094 35.13-06	Regional	103.15	228.90	230.70	230.12	230.77	0.002937	2.10	126.75	148.14	0.53
Reach1	1007.822 35.13-05	2-year	1.89	227.91	228.43		228.44	0.005298	0.46	4.83	26.22	0.24
Reach1	1007.822 35.13-05	5-year	2.75	227.91	228.50		228.51	0.004847	0.50	7.16	35.55	0.24
Reach1	1007.822 35.13-05	10-year	17.73	227.91	228.91		228.93	0.004152	0.72	33.29	71.94	0.25
Reach1	1007.822 35.13-05	25-year	23.22	227.91	229.01		229.03	0.003926	0.75	40.13	72.61	0.25
Reach1	1007.822 35.13-05	50-year	27.53	227.91	229.08		229.10	0.003808	0.77	45.07	73.15	0.25
Reach1	1007.822 35.13-05	100-year	31.77	227.91	229.13		229.15	0.003902	0.81	48.92	73.60	0.25
Reach1	1007.822 35.13-05	Regional	103.15	227.91	229.78		229.83	0.004111	1.14	105.63	127.55	0.28
Reach1	1007.614 35.13-04	2-year	1.89	226.62	227.10		227.11	0.007776	0.50	4.10	15.58	0.29
Reach1	1007.614 35.13-04	5-year	2.75	226.62	227.16		227.18	0.008878	0.59	5.01	16.19	0.32
Reach1	1007.614 35.13-04	10-year	17.73	226.62	227.80		227.84	0.006831	1.03	23.50	43.33	0.33
Reach1	1007.614 35.13-04	25-year	23.22	226.62	227.95	227.44	227.99	0.006556	1.10	30.41	54.78	0.33