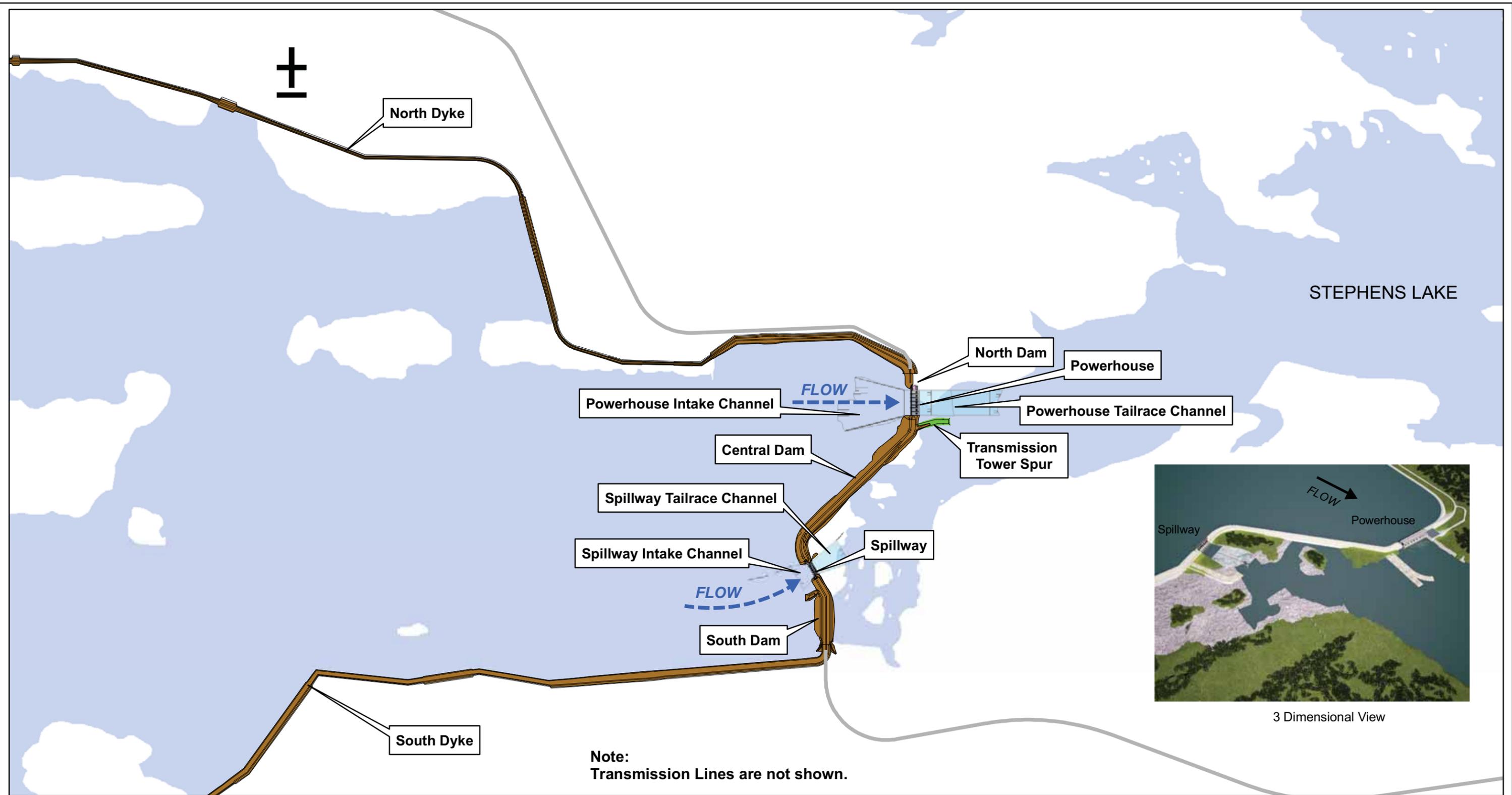


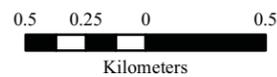
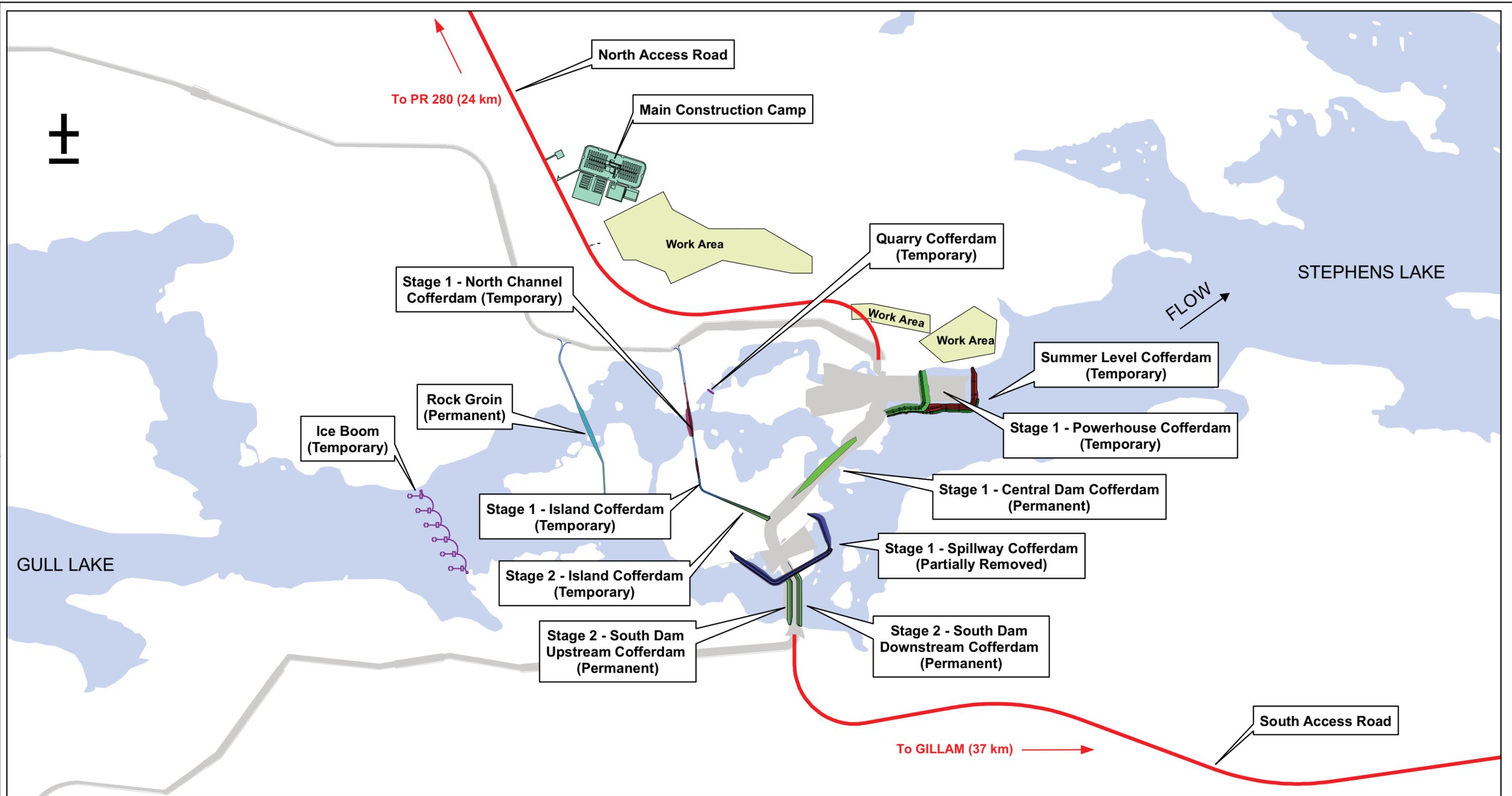
Date: June 12/08

GENERAL LOCATION PLAN  
FIGURE 1



Date: June 12/08

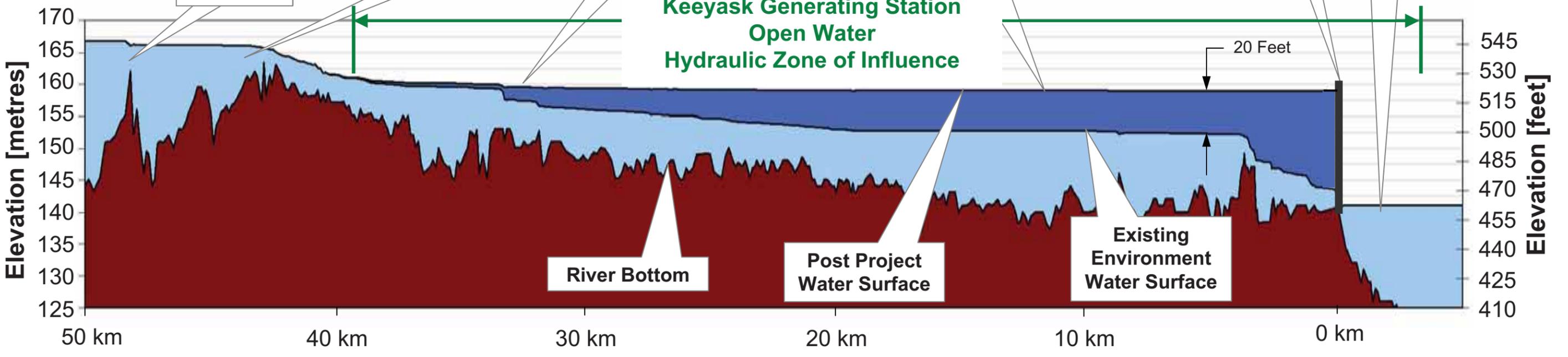
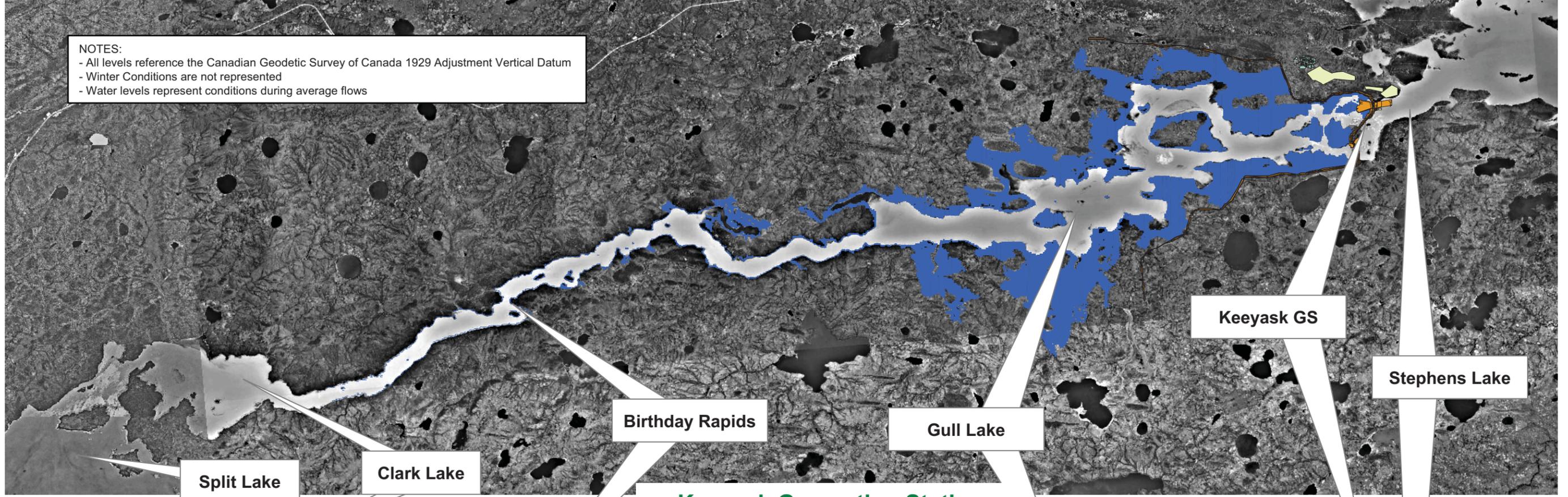
GENERAL ARRANGEMENT OF  
PRINCIPAL STRUCTURES  
FIGURE 2



Date: June 12/08

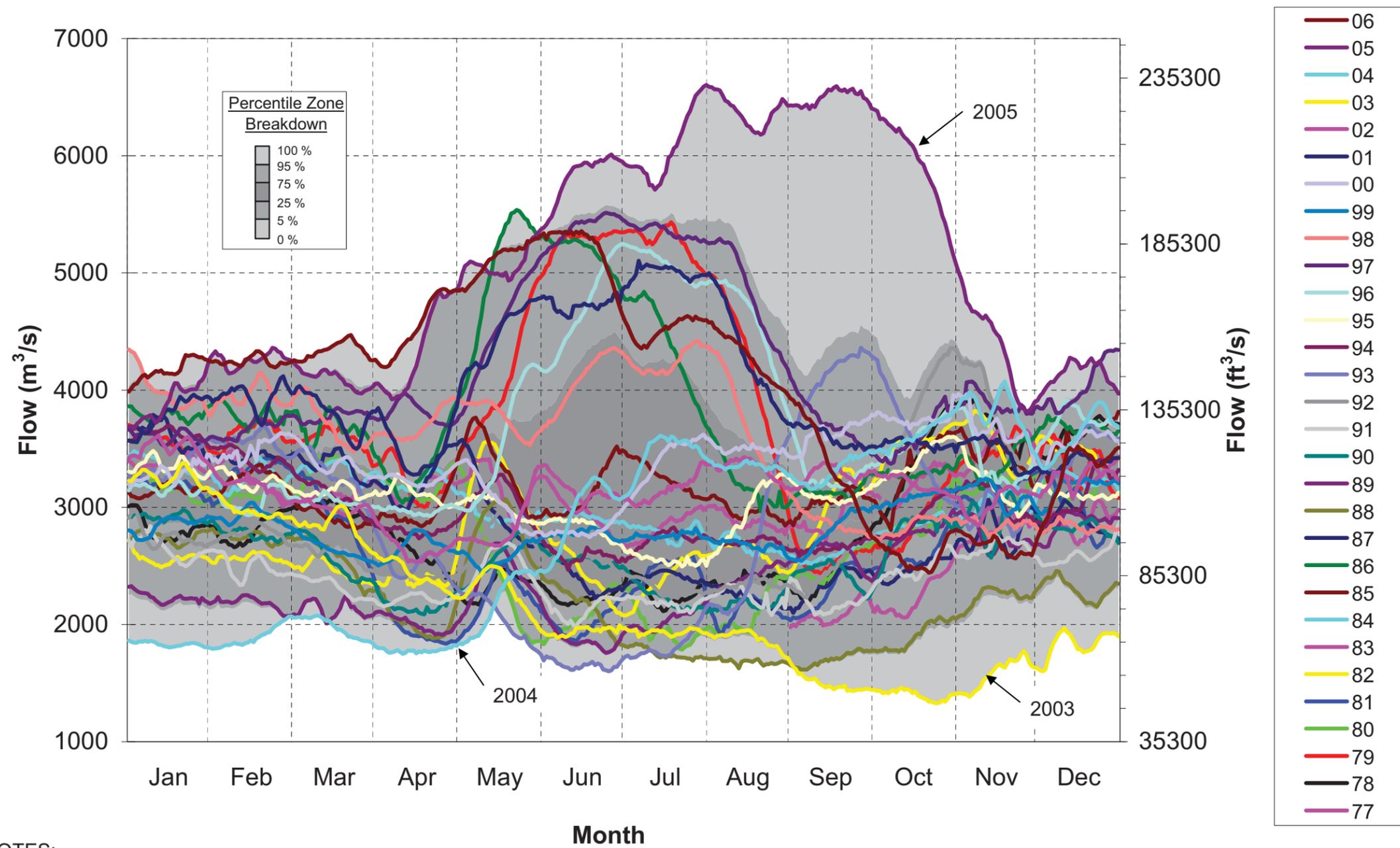
**GENERAL ARRANGEMENT OF SUPPORTING INFRASTRUCTURE**  
**FIGURE 3**

NOTES:  
 - All levels reference the Canadian Geodetic Survey of Canada 1929 Adjustment Vertical Datum  
 - Winter Conditions are not represented  
 - Water levels represent conditions during average flows



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WATER SURFACE PROFILES  
 EXISTING ENVIRONMENT AND POST PROJECT  
 FIGURE 4

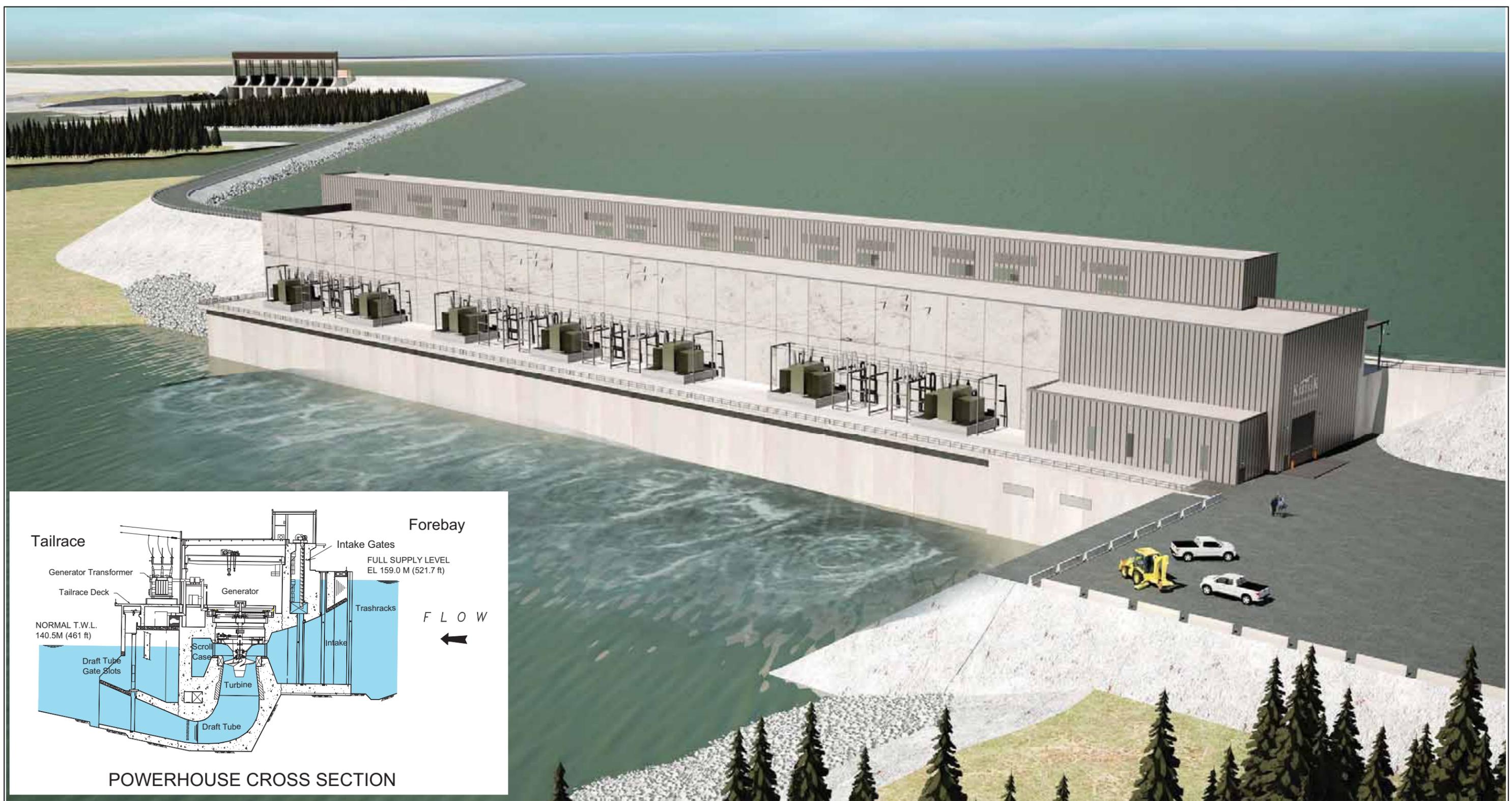


- NOTES:
- Source: Split Lake Daily Outflow
  - Percentile zone data Based on daily data.
  - Period of record: Sept. 1977 to Dec. 2006
  - Conversion: 1 foot = 0.3048 meters



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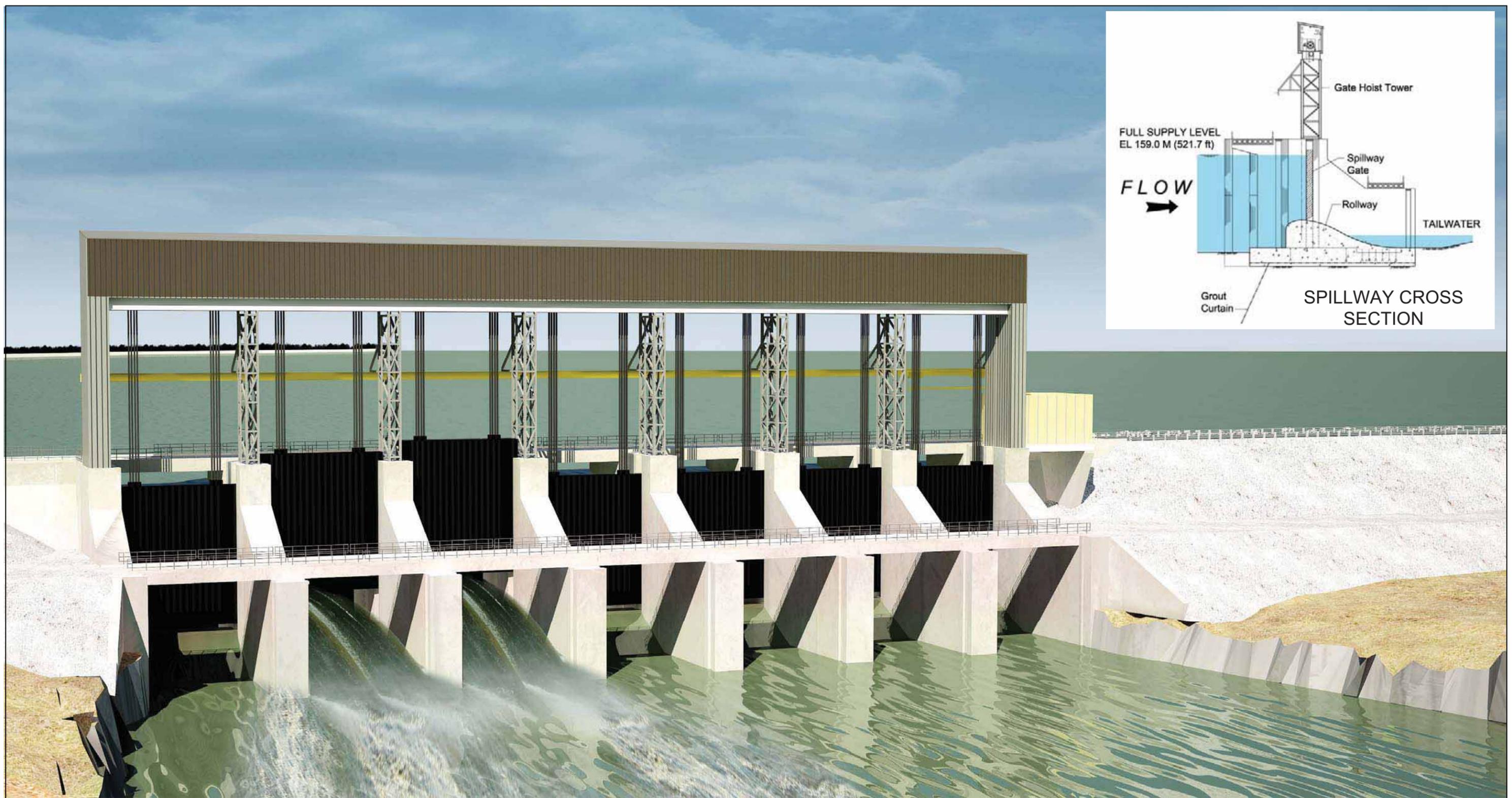
HISTORICAL RIVER FLOW REGIME  
AT KEEYASK GS SITE  
FIGURE 5



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POWERHOUSE COMPLEX

FIGURE 6



**KEEYASK**

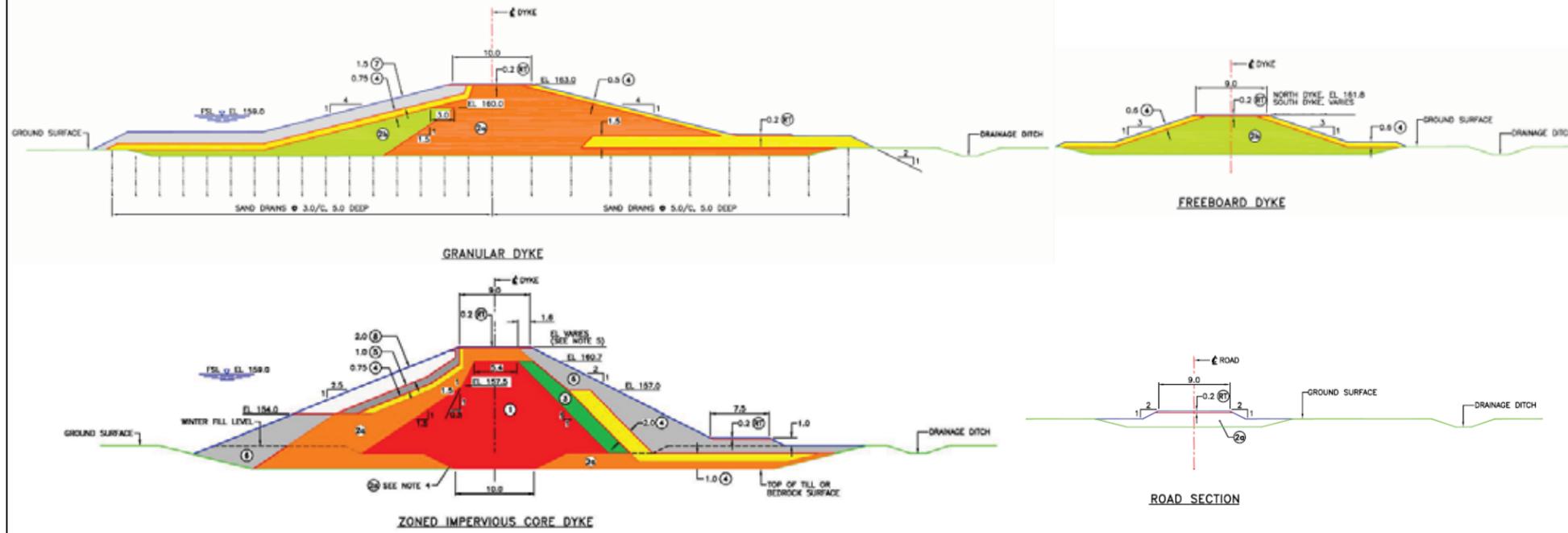
Date: June 12/08

**SPILLWAY**

**FIGURE 7**

JKDA Schedule 7-1

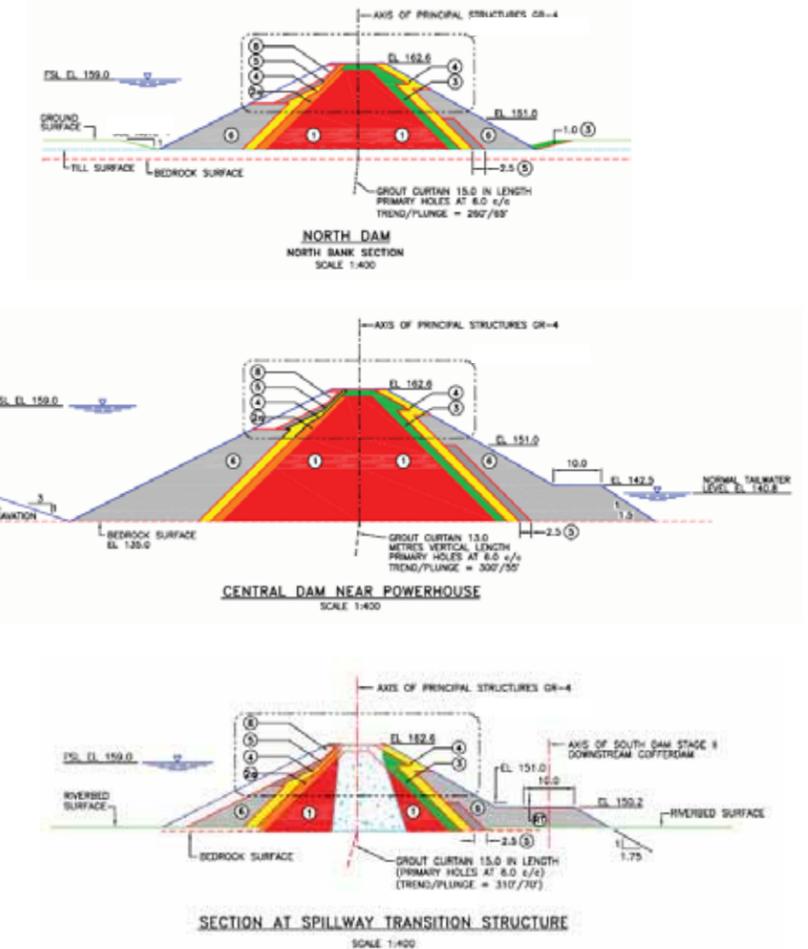
## SAMPLE DYKE CROSS SECTIONS



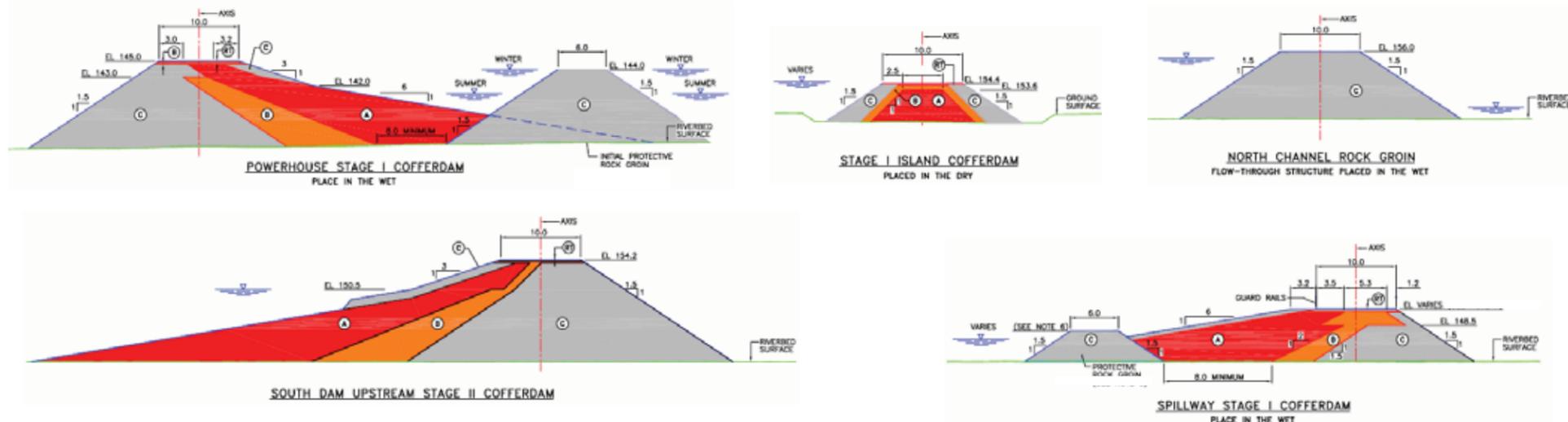
### LEGEND:

①	Ⓐ	IMPERVIOUS FILL
②a	Ⓑ	PERVIOUS GRANULAR FILL
②b		SEMI-PERVIOUS GRANULAR FILL
③		FILTER
④		TRANSITION - CRUSHED ROCK
⑤		RIPRAP BEDDING
⑥	Ⓒ	ROCKFILL
⑦		RIPRAP (SEE NOTE 1)
⑧		RIPRAP
RT		ROAD TOPPING
		WATER LEVEL

## SAMPLE DAM CROSS SECTIONS



## SAMPLE COFFERDAM CROSS SECTIONS



**KEEYASK**

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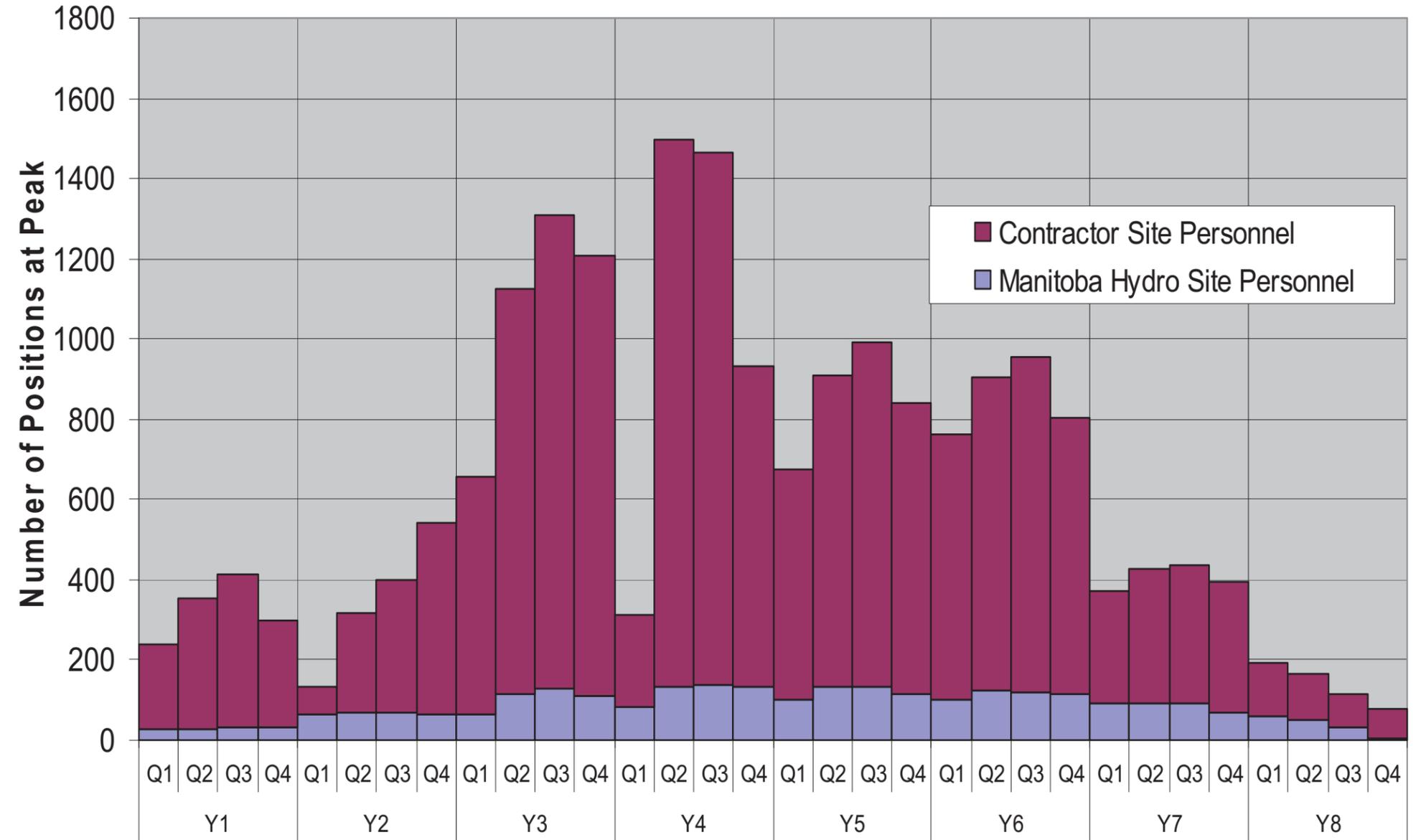
## DAM, DYKE, AND COFFERDAM CROSS SECTIONS FIGURE 8





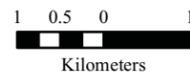
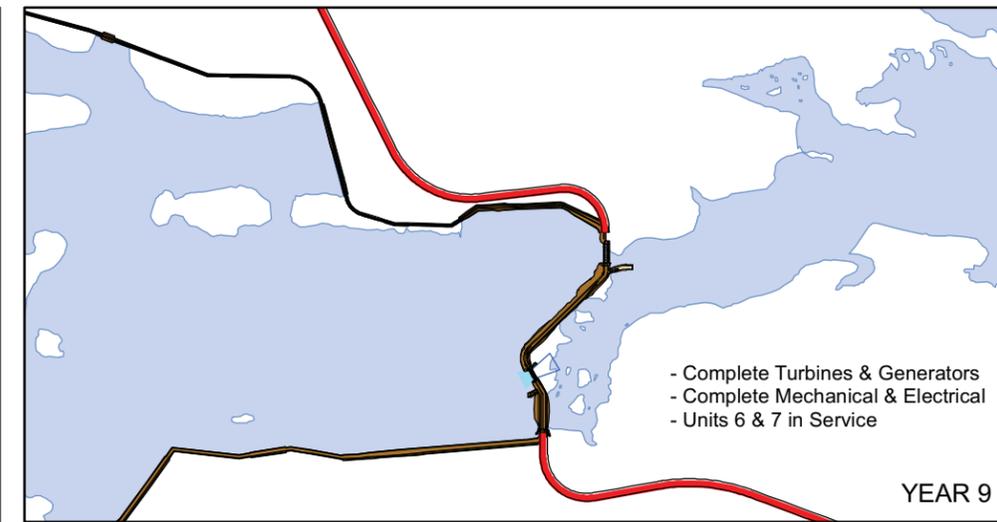
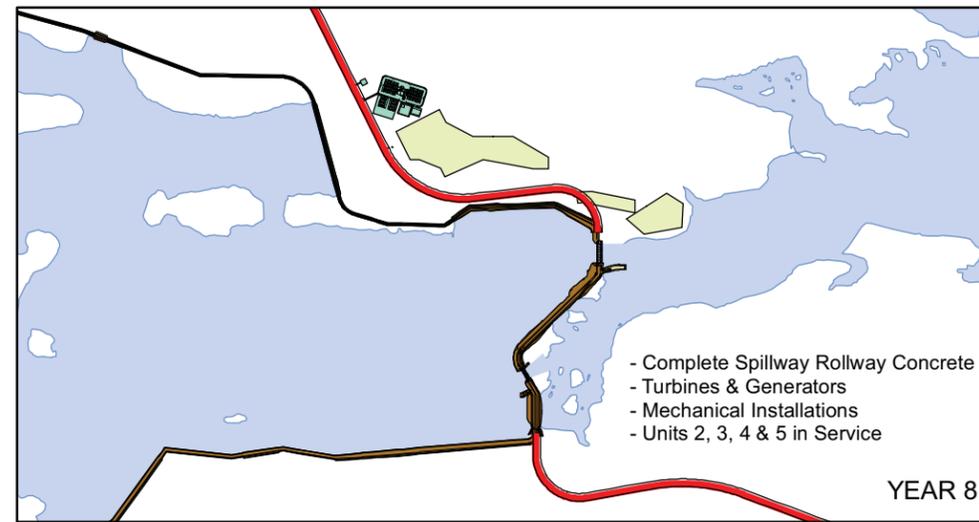
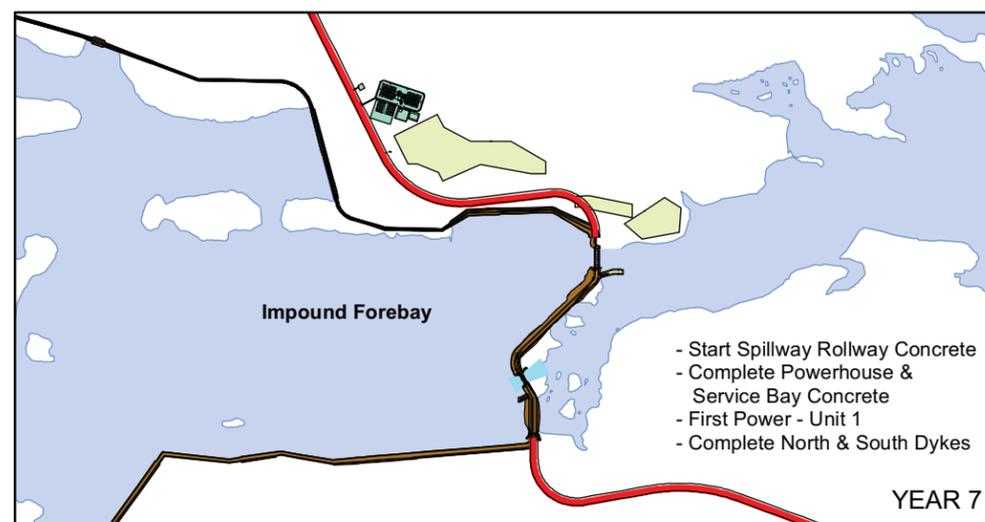
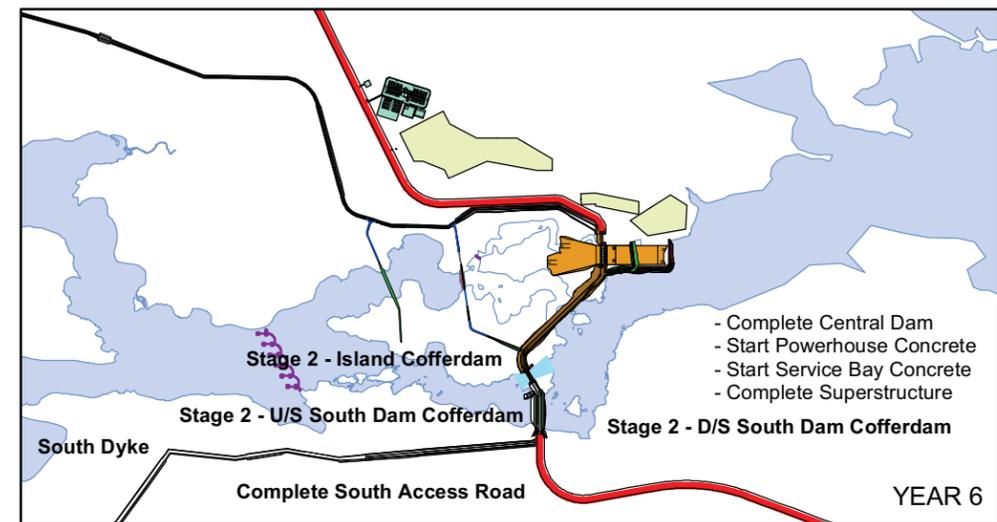
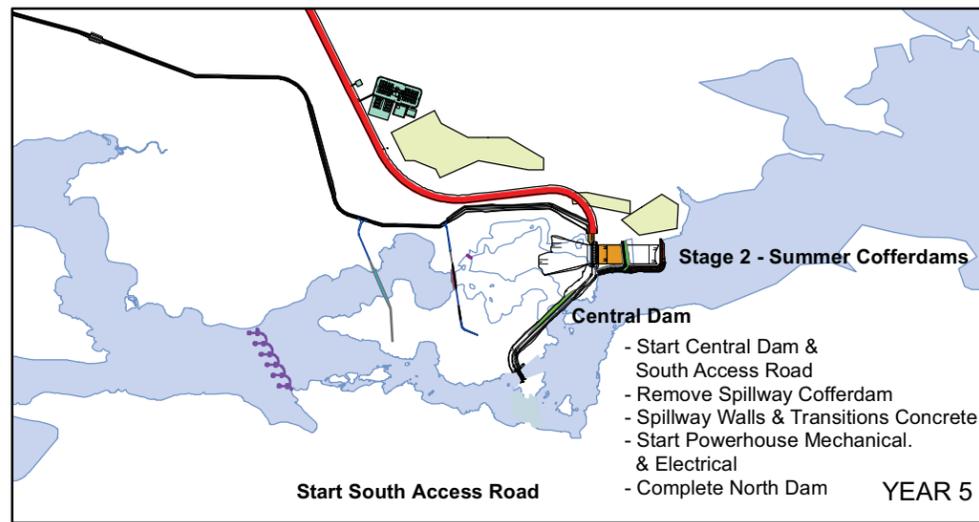
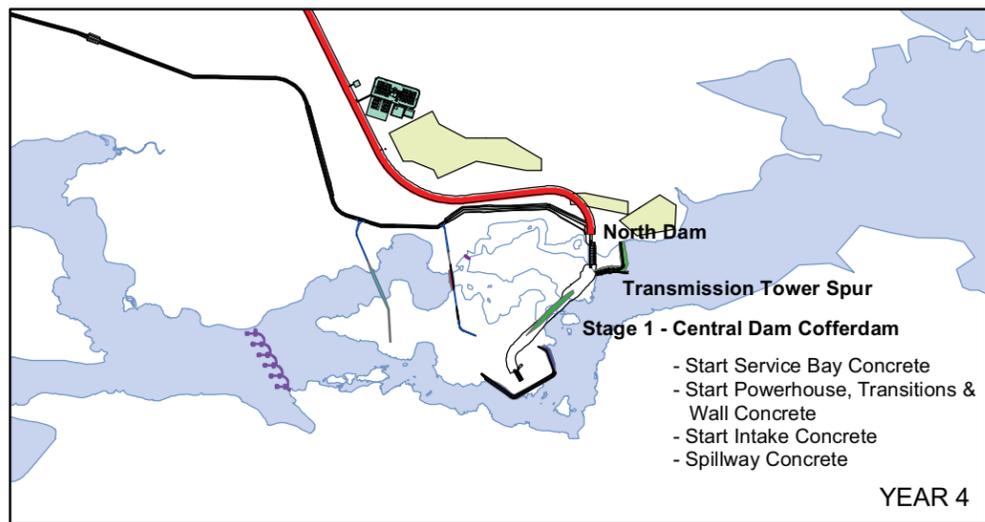
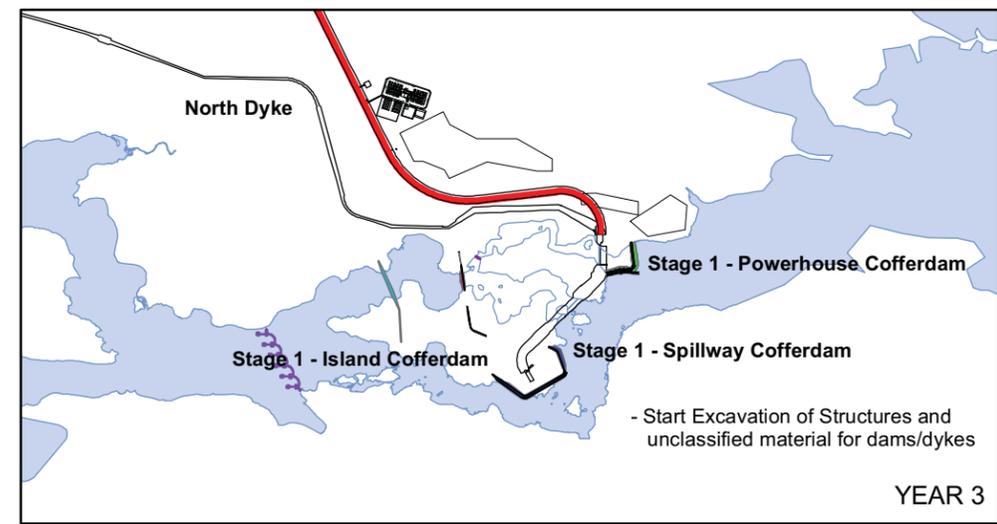
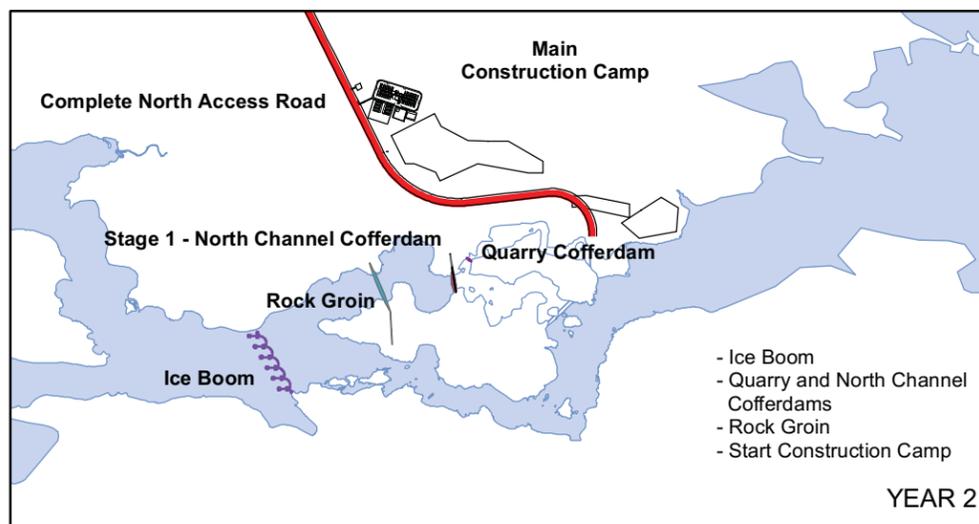
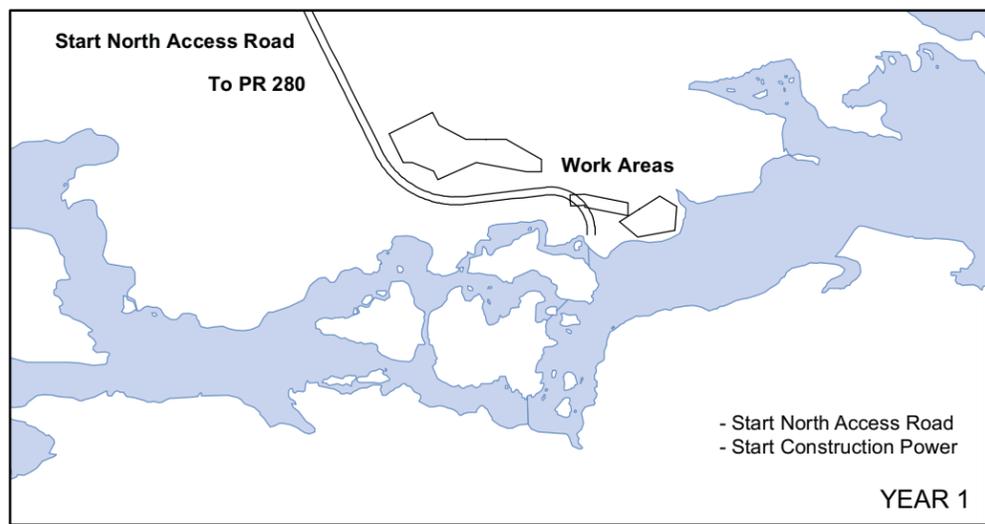
**Notes:**

- 1) The forecasts illustrated are based on Acres and Manitoba Hydro's estimates of manpower and a construction schedule based on a December, 2017 first unit in-service date.
- 2) The bar chart represents an estimate based on current regulations, present project plans, and experience with similar projects. Contractors will determine specific job requirements when the project is being built. Actual employment requirements will vary from the estimate presented above.
- 3) "Peak Site Workforce" refers to the maximum number of people on site, within the quarter specified.
- 4) The bar chart illustrates contractor site personnel (including supervisory and management positions) and Manitoba Hydro site personnel. The forecasts do not include workforce for the construction of Substations and Transmission Lines.



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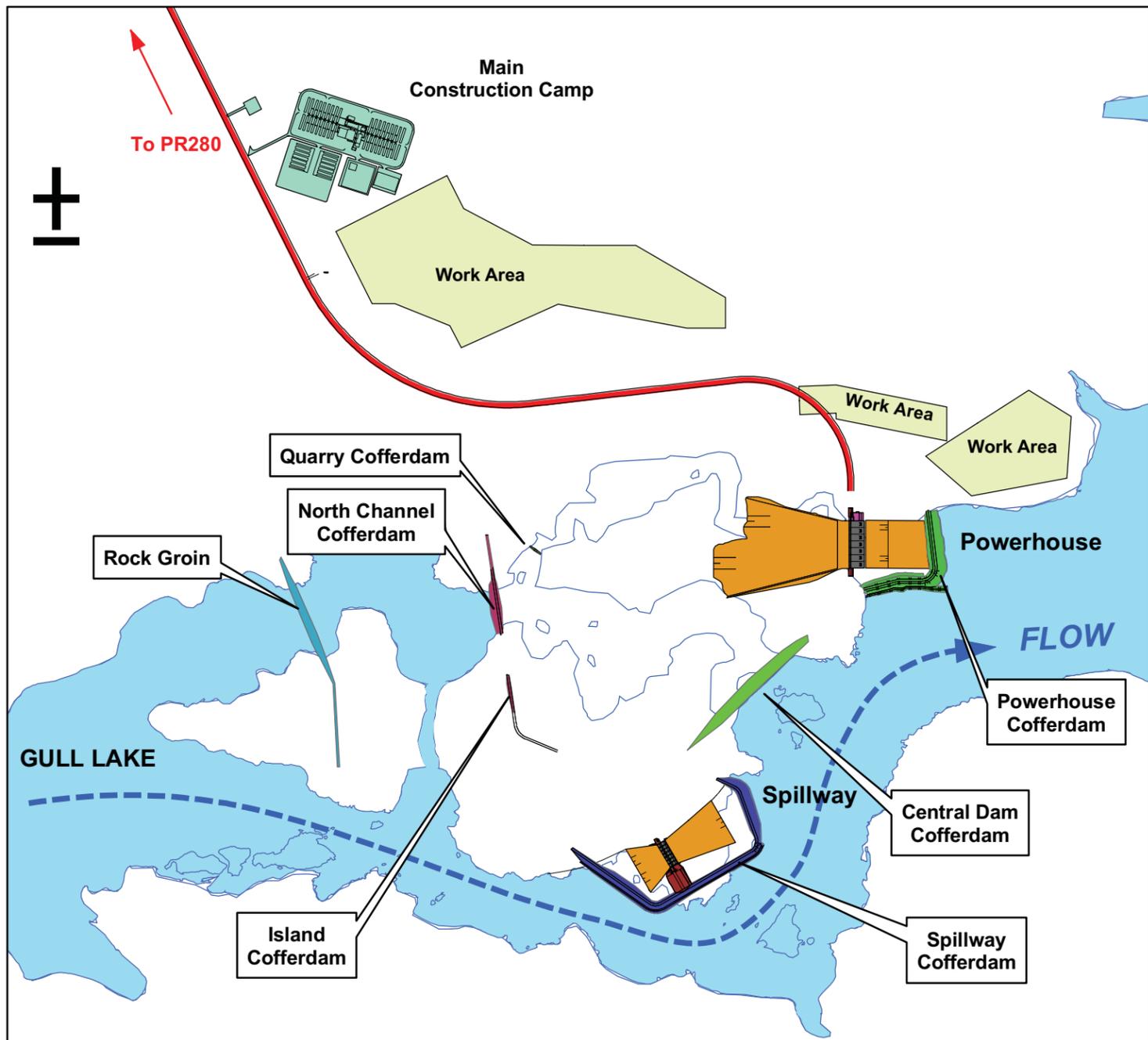
**ESTIMATED PEAK SITE CONSTRUCTION  
WORKFORCE BY QUARTER  
FIGURE 10**



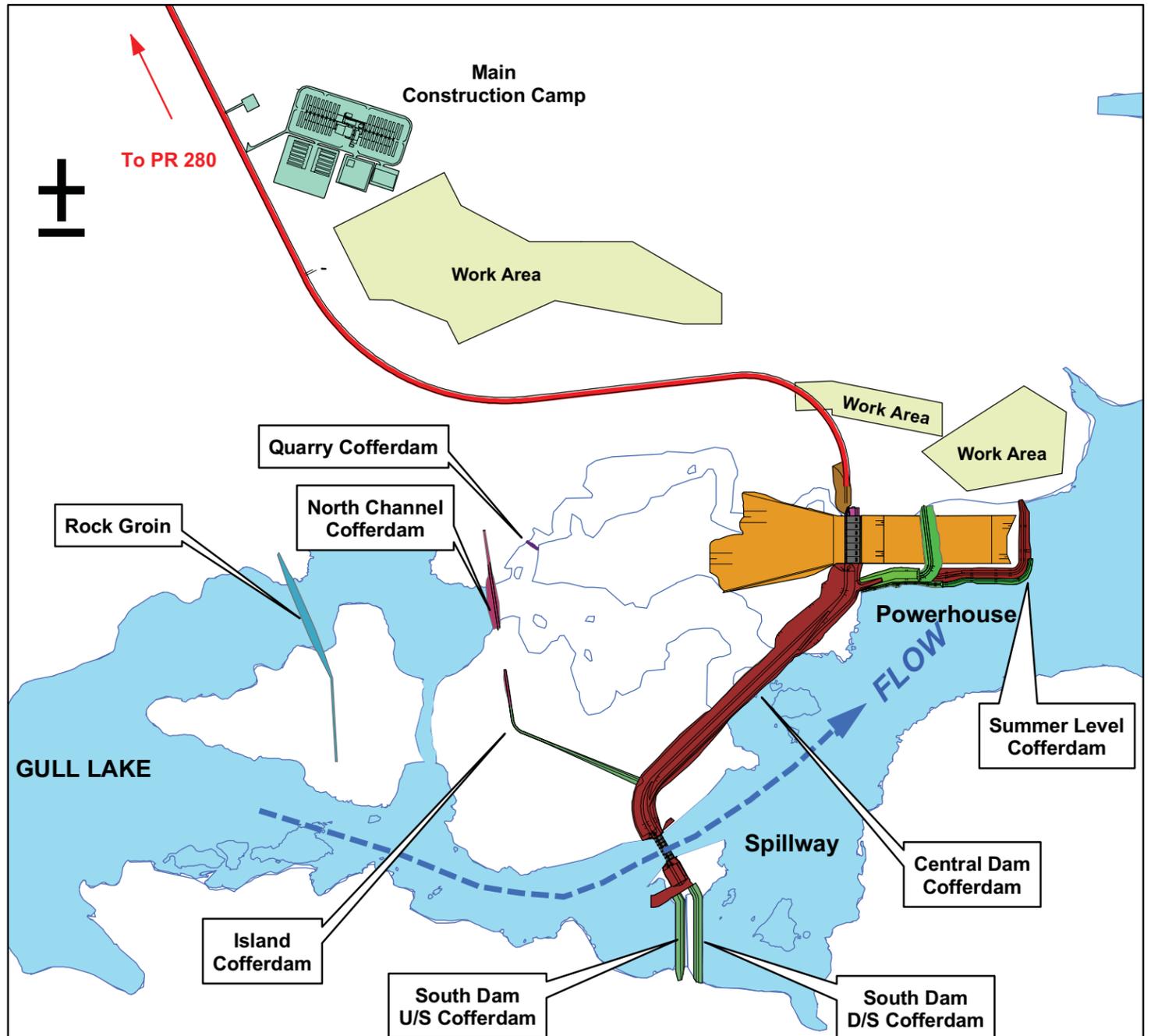
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# CONSTRUCTION SEQUENCE

## FIGURE 11



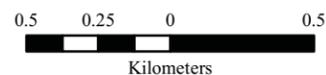
**STAGE 1 DIVERSION**  
YEAR 2 to YEAR 5



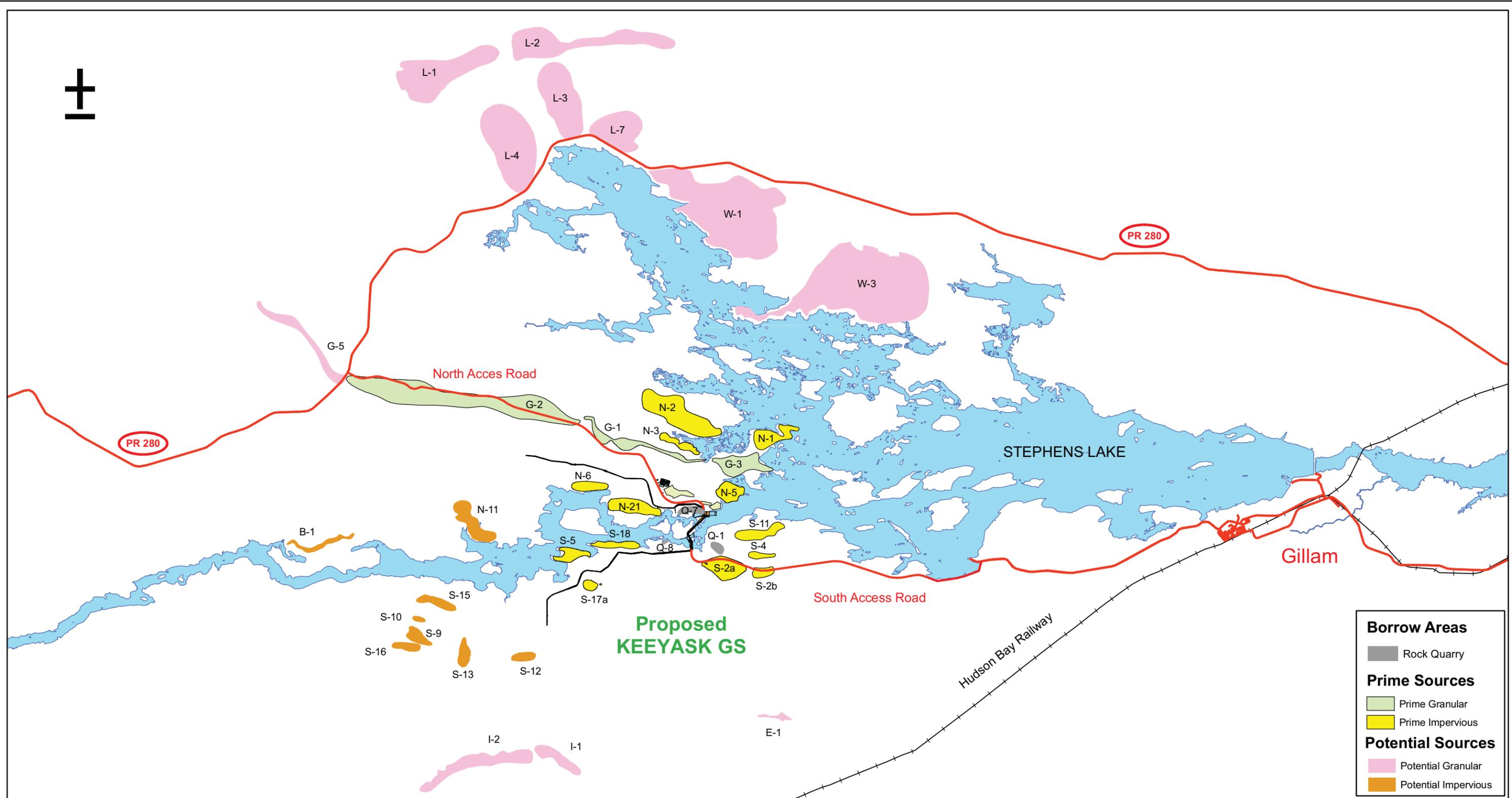
**STAGE 2 DIVERSION**  
YEAR 5 to YEAR 6

**STAGE 1 AND STAGE 2 DIVERSION**

**FIGURE 12**



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**Borrow Areas**

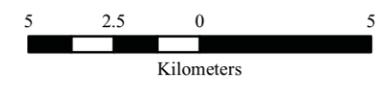
- Rock Quarry

**Prime Sources**

- Prime Granular
- Prime Impervious

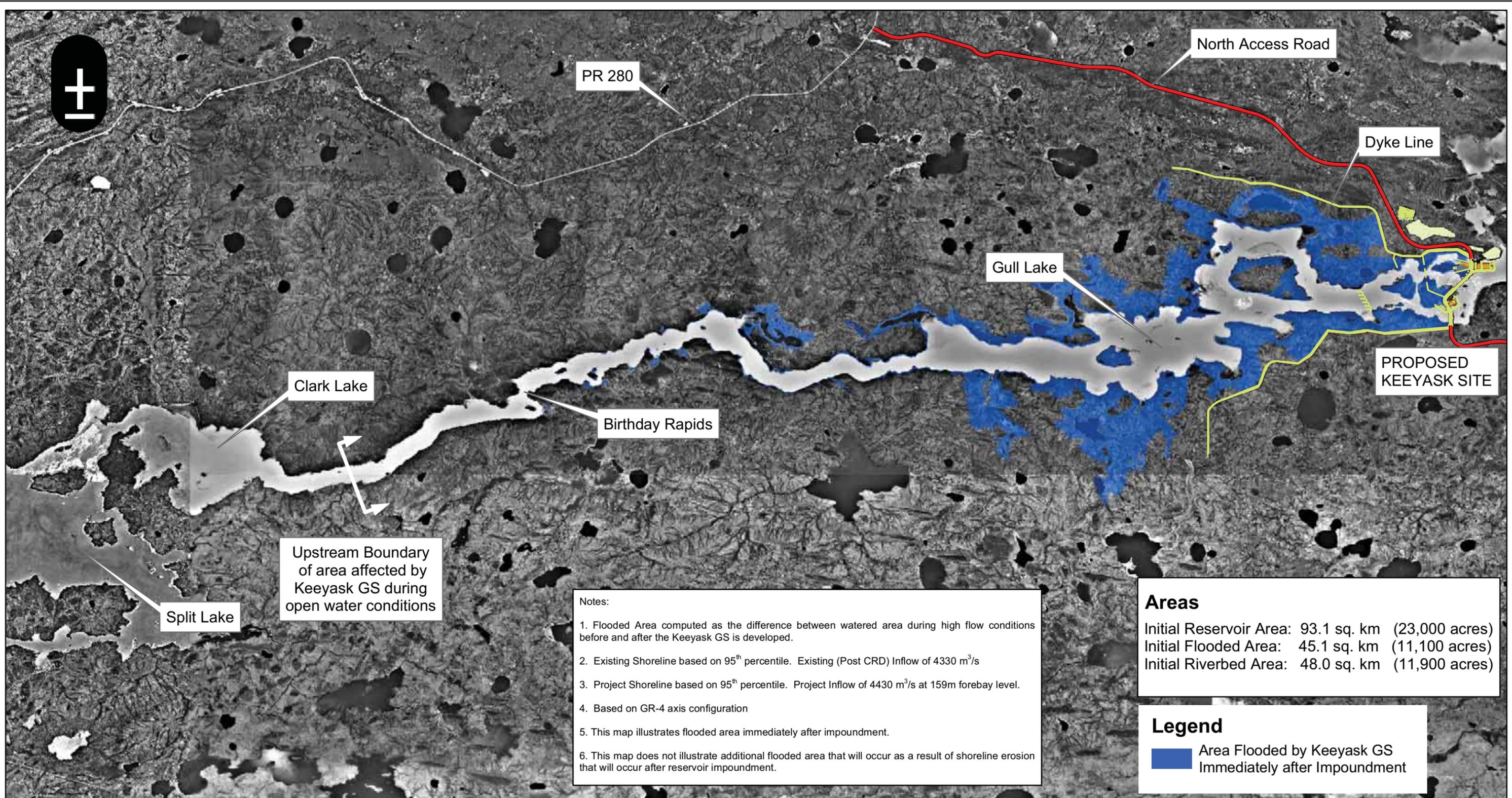
**Potential Sources**

- Potential Granular
- Potential Impervious



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POTENTIAL MATERIAL SOURCES/  
BORROW AREAS  
FIGURE 13



Notes:

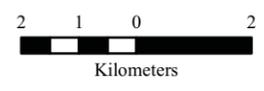
1. Flooded Area computed as the difference between watered area during high flow conditions before and after the Keeyask GS is developed.
2. Existing Shoreline based on 95<sup>th</sup> percentile. Existing (Post CRD) Inflow of 4330 m<sup>3</sup>/s
3. Project Shoreline based on 95<sup>th</sup> percentile. Project Inflow of 4430 m<sup>3</sup>/s at 159m forebay level.
4. Based on GR-4 axis configuration
5. This map illustrates flooded area immediately after impoundment.
6. This map does not illustrate additional flooded area that will occur as a result of shoreline erosion that will occur after reservoir impoundment.

**Areas**

Initial Reservoir Area: 93.1 sq. km (23,000 acres)  
 Initial Flooded Area: 45.1 sq. km (11,100 acres)  
 Initial Riverbed Area: 48.0 sq. km (11,900 acres)

**Legend**

Area Flooded by Keeyask GS Immediately after Impoundment



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**AREA FLOODED BY  
 KEEYASK GS  
 FIGURE 14**



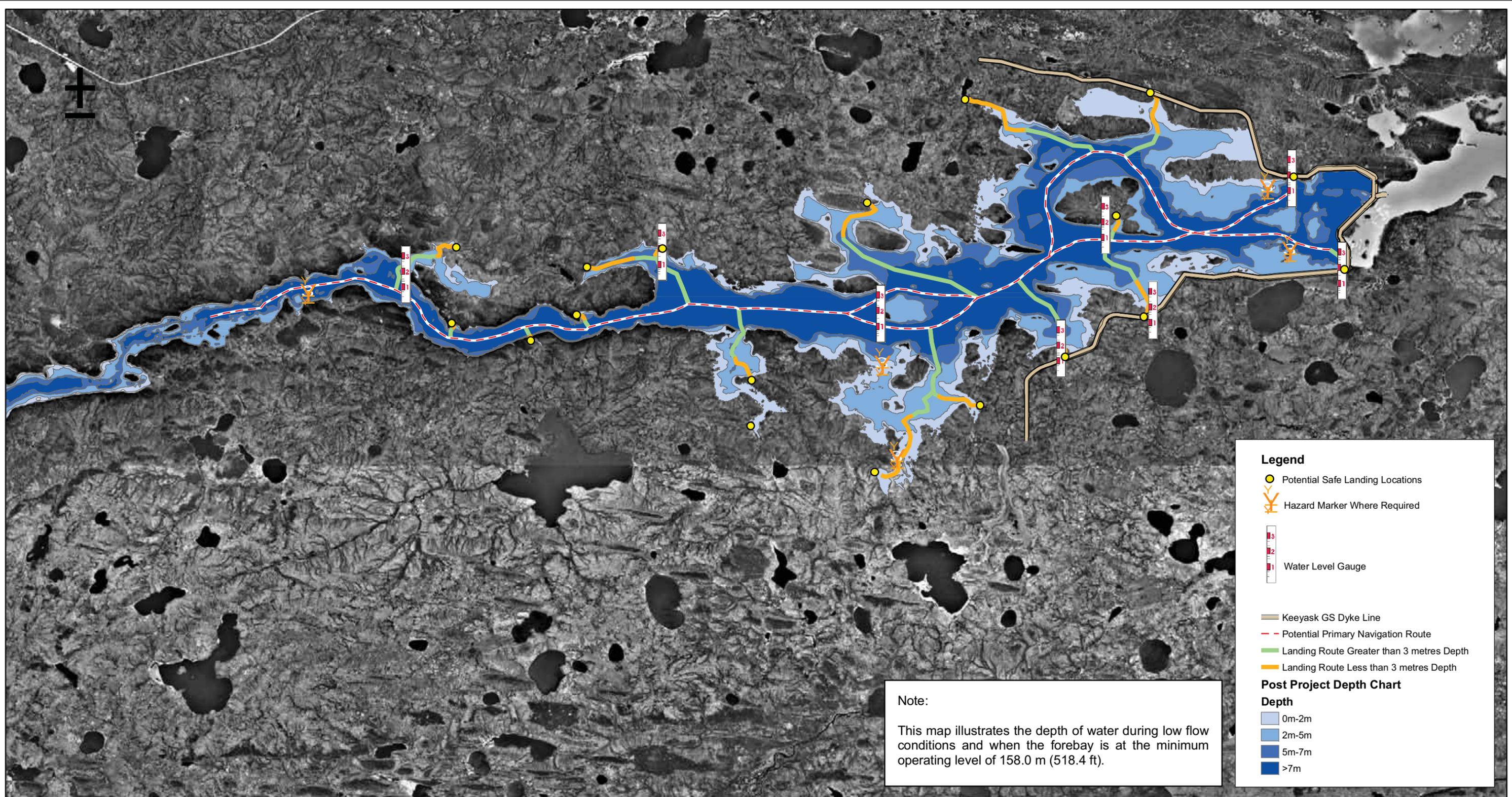
**Legend**

-  Mechanical Clearing
-  Hand Clearing



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**RESERVOIR CLEARING PLAN  
AREAS TO BE CLEARED PRIOR TO FLOODING  
FIGURE 15**



**Legend**

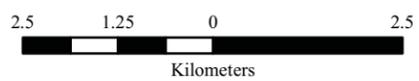
- Potential Safe Landing Locations
- ⚠ Hazard Marker Where Required
- Water Level Gauge
- Keeyask GS Dyke Line
- Potential Primary Navigation Route
- Landing Route Greater than 3 metres Depth
- Landing Route Less than 3 metres Depth

**Post Project Depth Chart**

**Depth**

- 0m-2m
- 2m-5m
- 5m-7m
- >7m

**Note:**  
 This map illustrates the depth of water during low flow conditions and when the forebay is at the minimum operating level of 158.0 m (518.4 ft).



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# PRELIMINARY DEPTH CHART, TRAVEL ROUTES AND SAFE LANDING LOCATIONS FIGURE 16