

**SPRINGBANK OFF-STREAM RESERVOIR PROJECT  
ELBOW RIVER AQUATIC HABITAT ASSESSMENT: REDWOOD MEADOWS TO DISCOVERY RIDGE  
(FALL 2019) TECHNICAL DATA REPORT**

Attachment F Elbow River HSI Distribution Map Books for Bull Trout  
June 2020

**Attachment F ELBOW RIVER HSI DISTRIBUTION MAP  
BOOKS FOR BULL TROUT**

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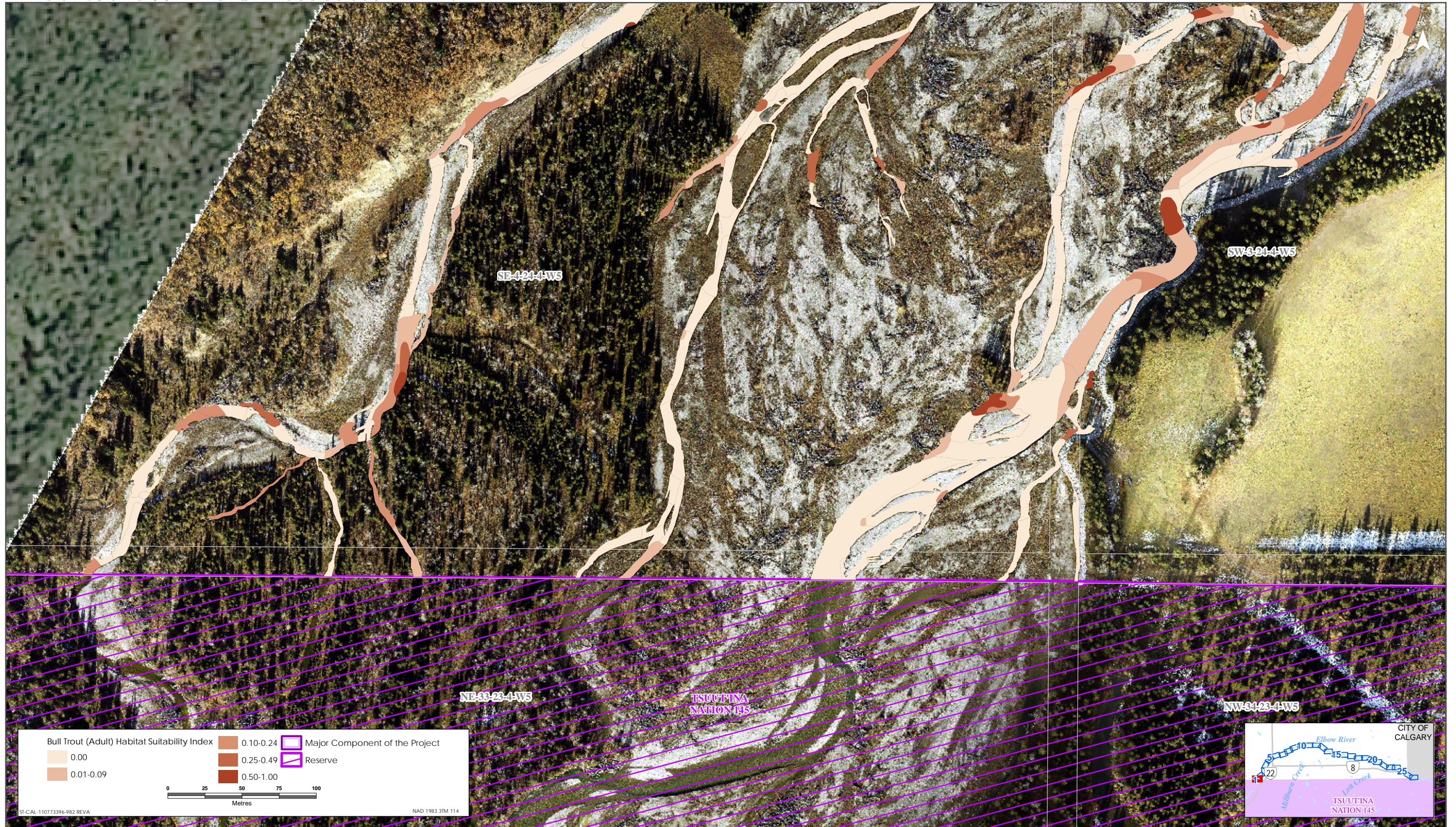
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**F.1 BULL TROUT HSI MAP FOR ELBOW RIVER (ADULT LIFE STAGE)**

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



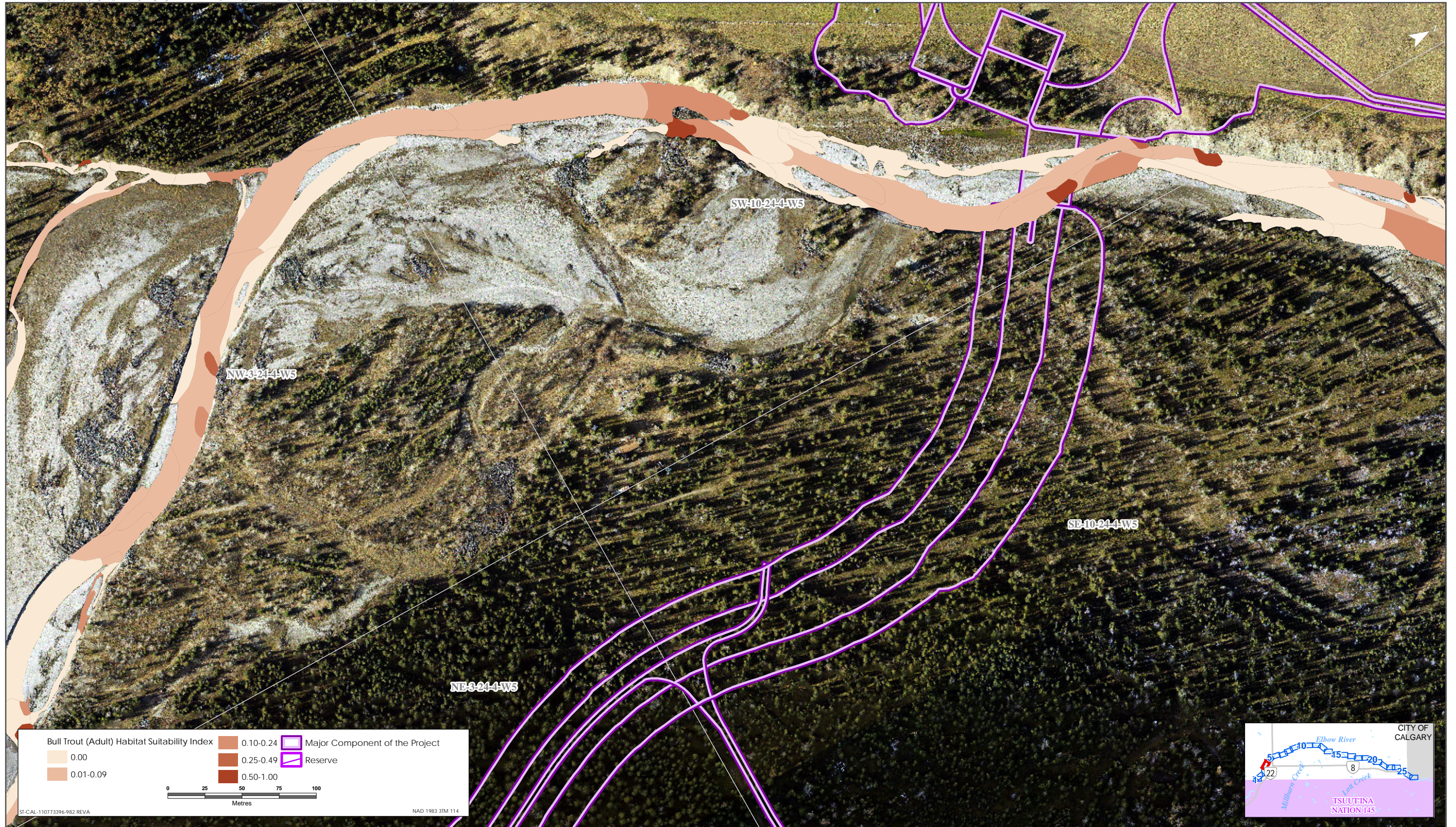
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

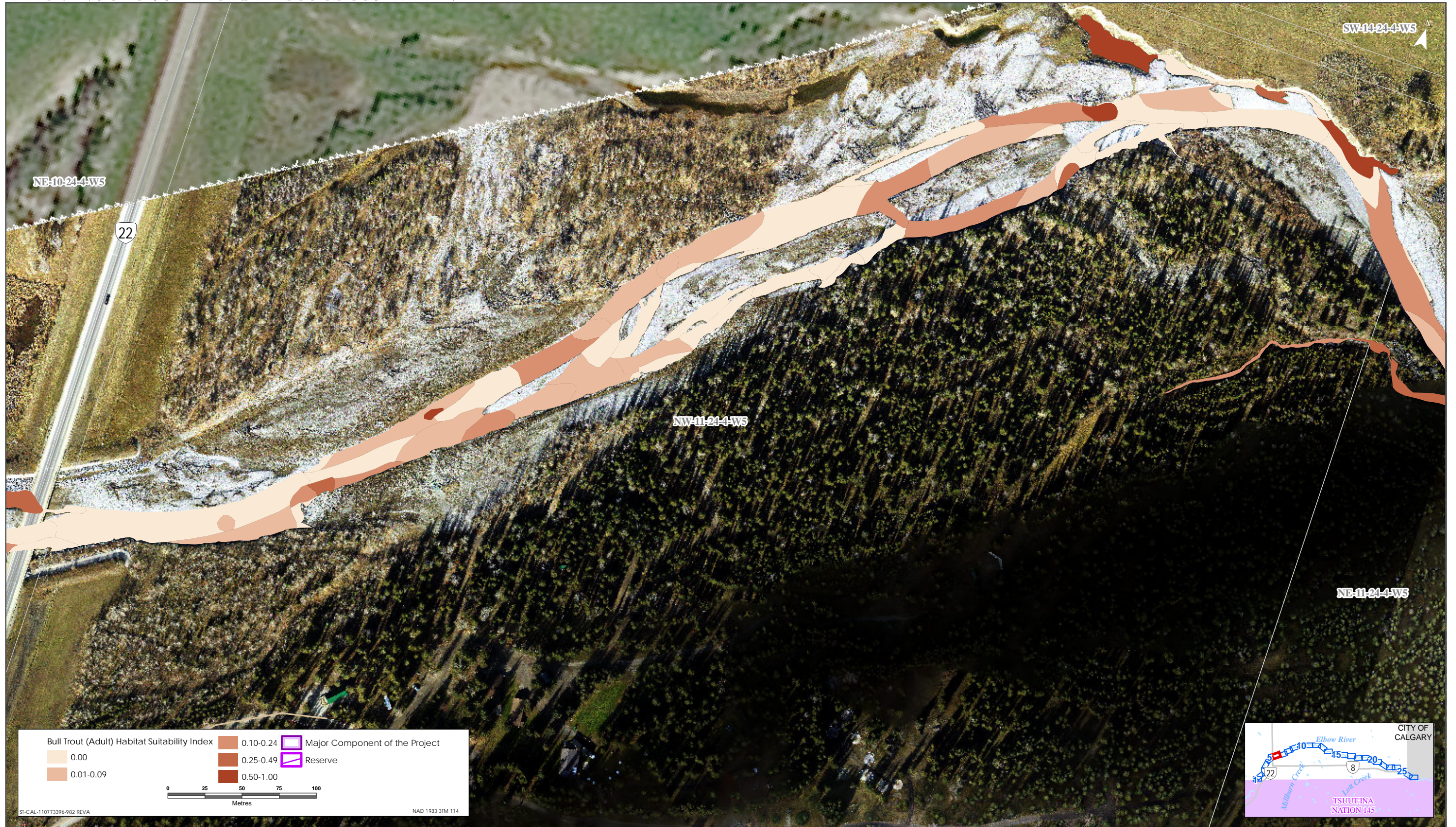
Bull Trout HSI Map for Elbow River (Adult Life Stage)





Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



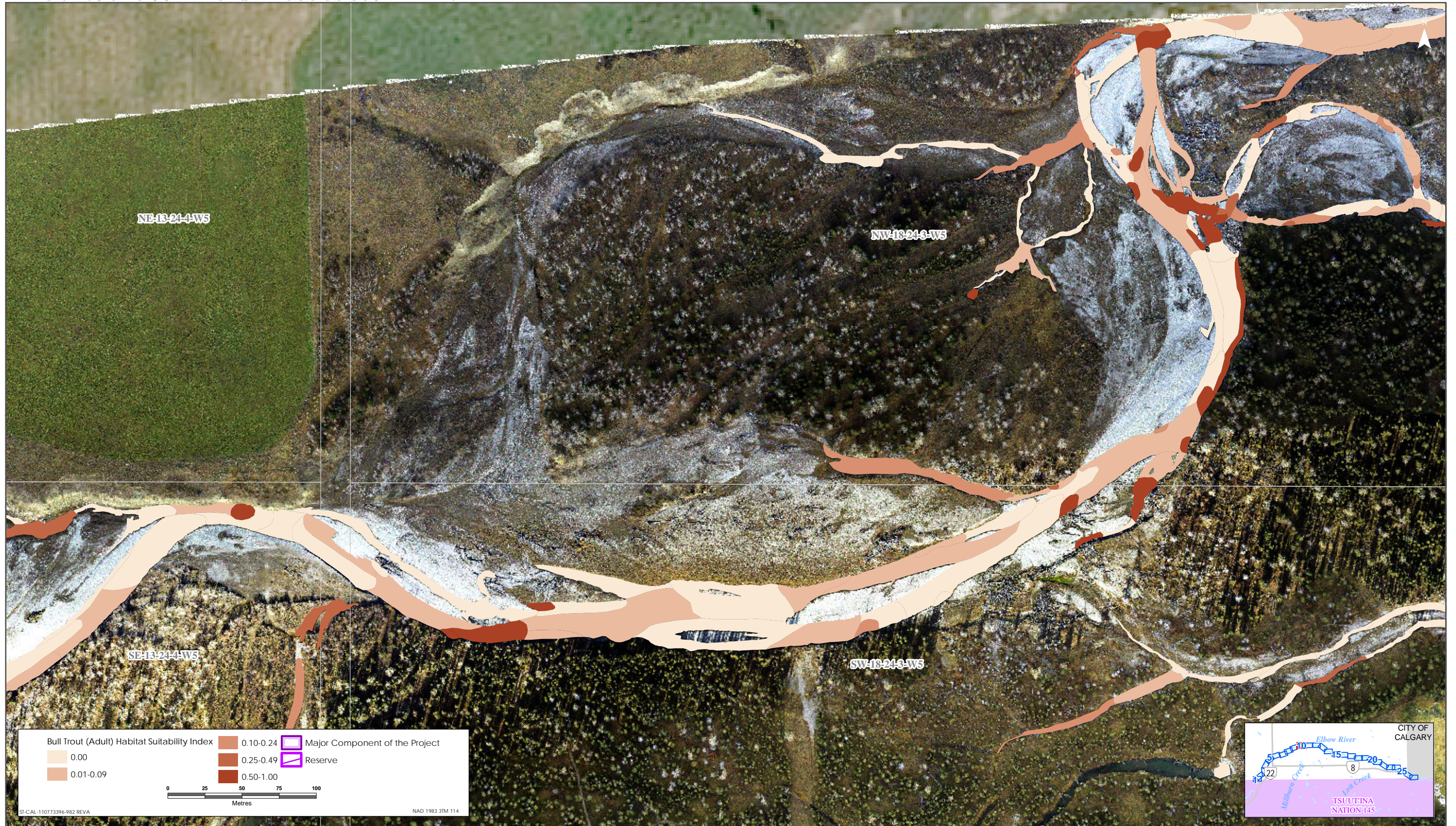
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



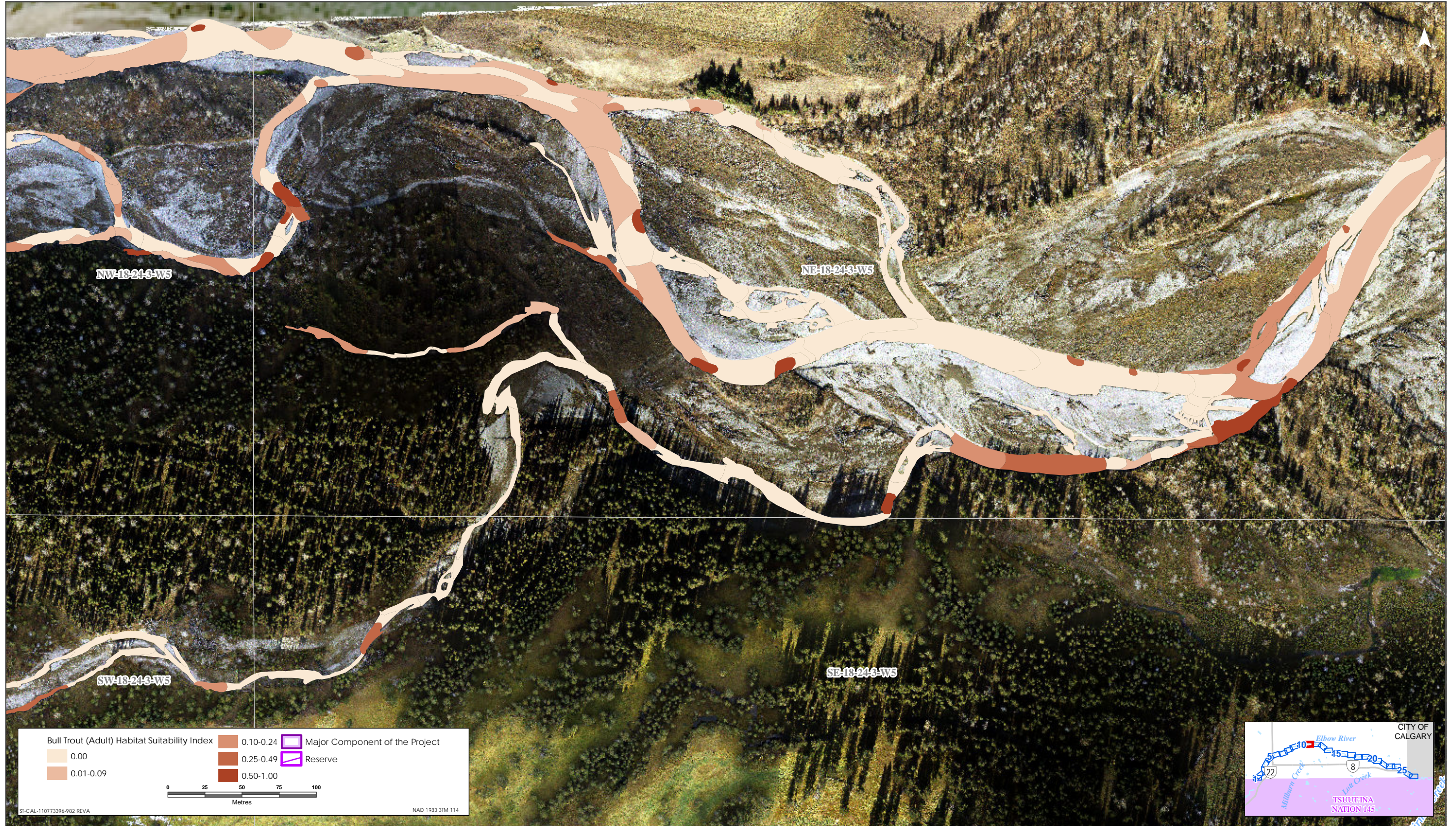
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



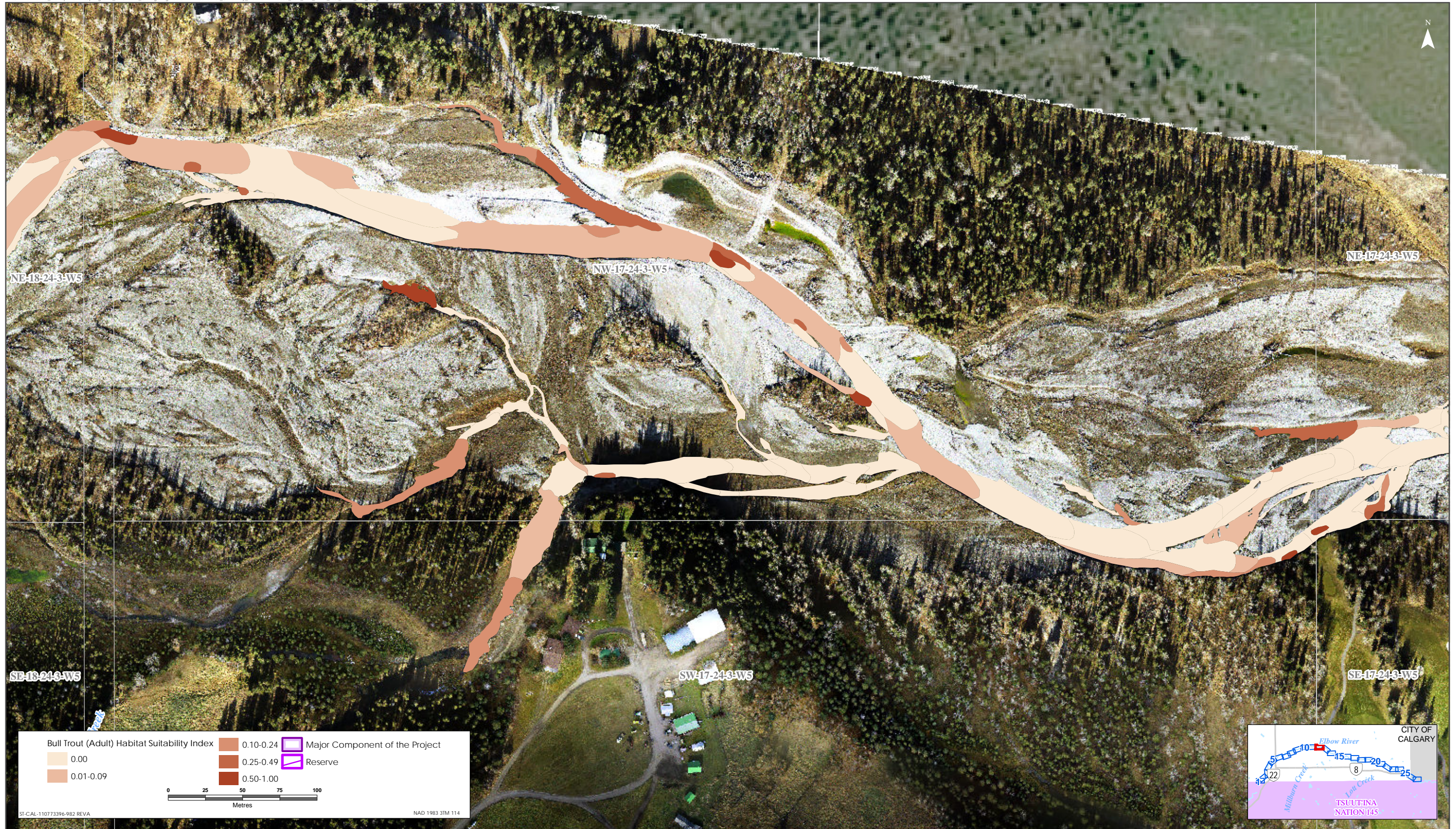
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

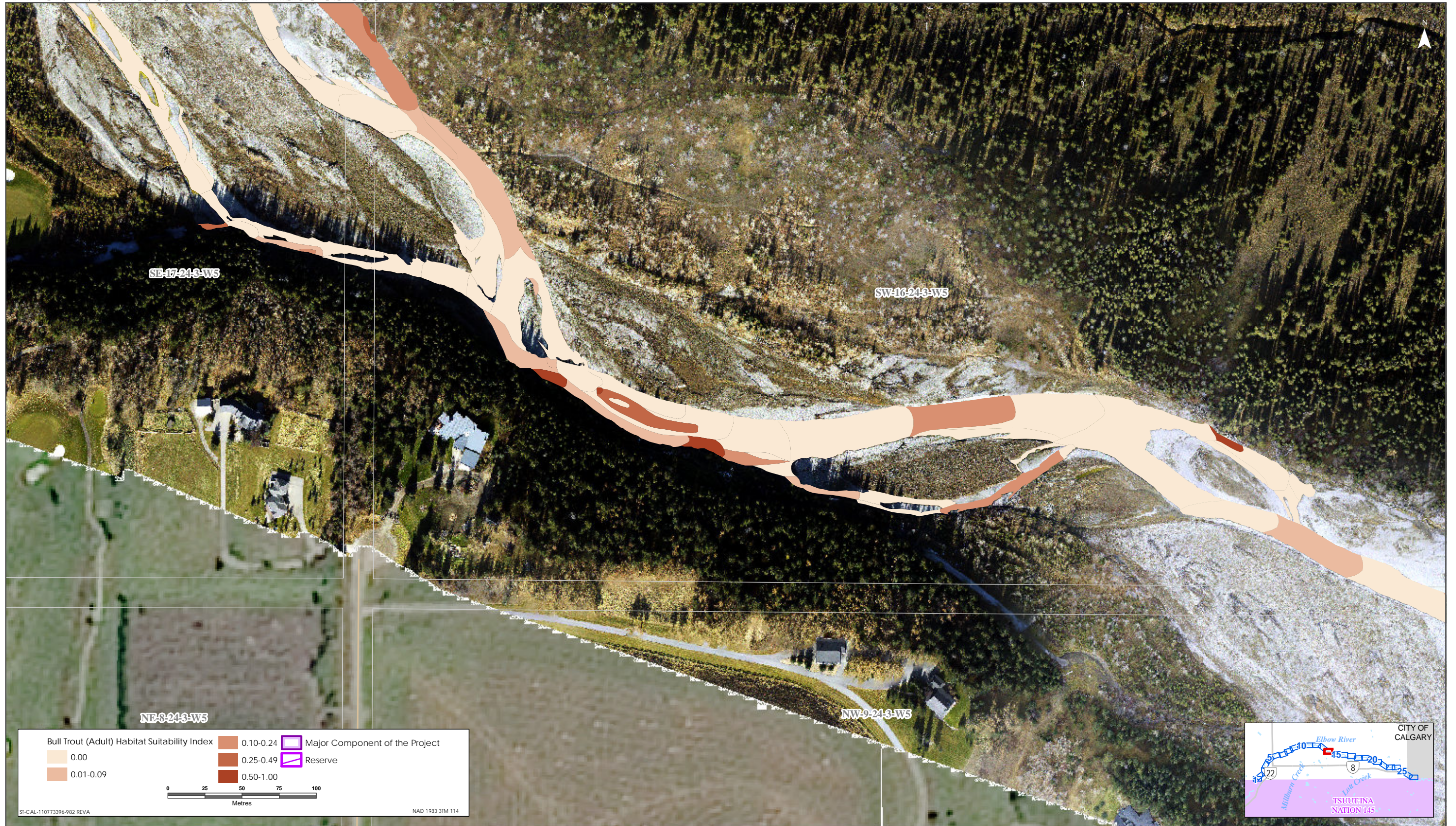
Bull Trout HSI Map for Elbow River (Adult Life Stage)





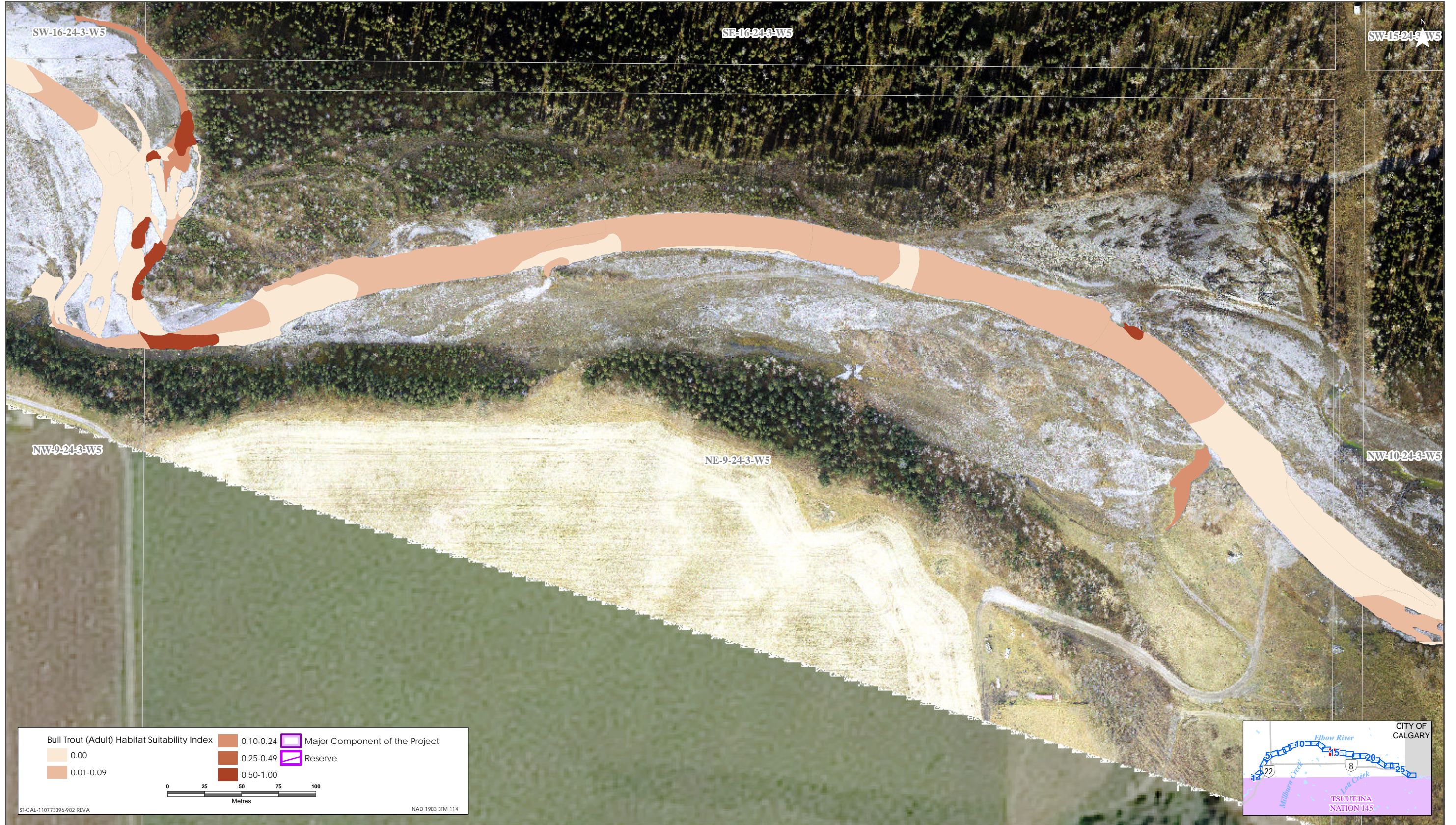
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



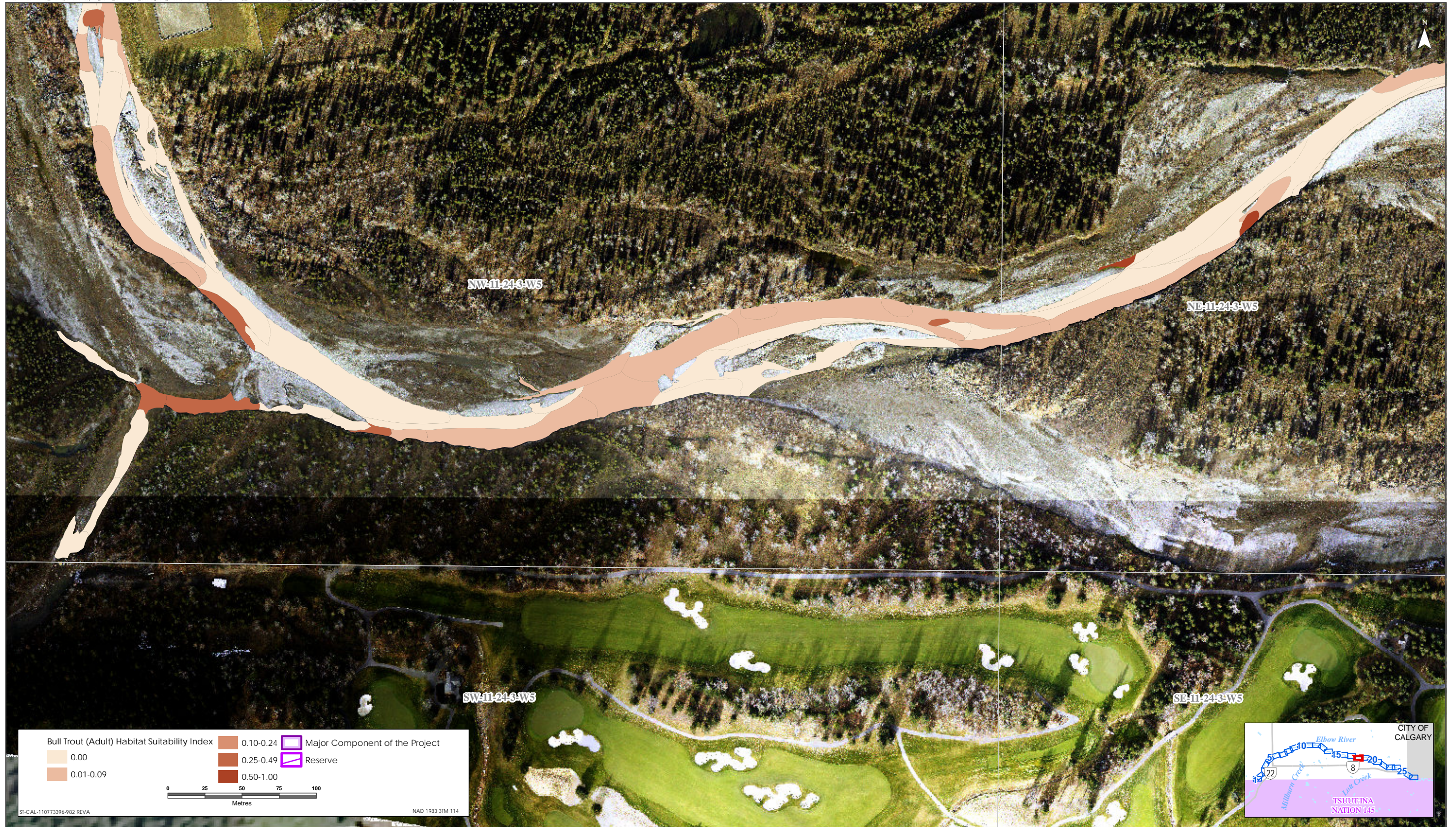
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
 Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



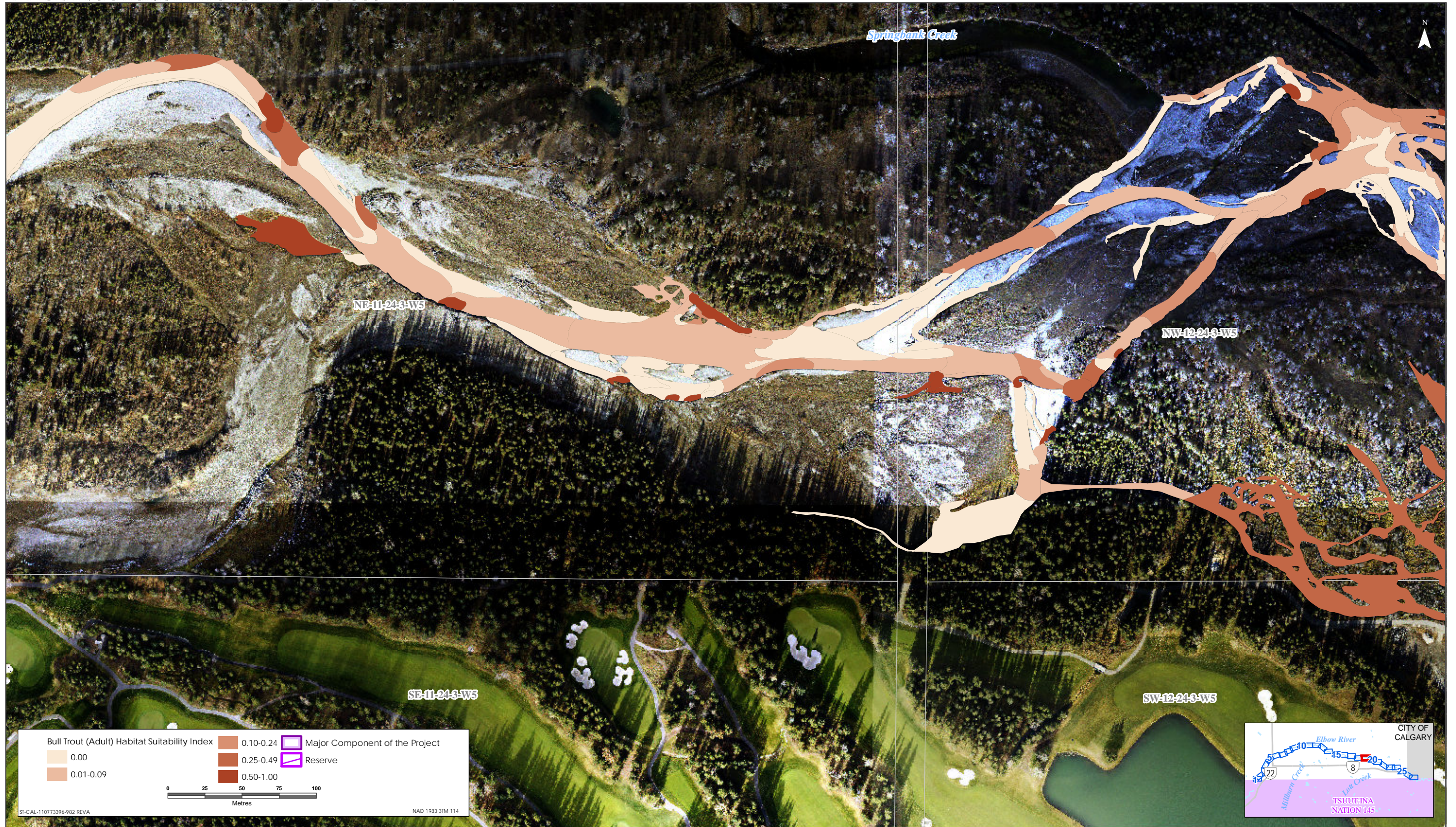
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



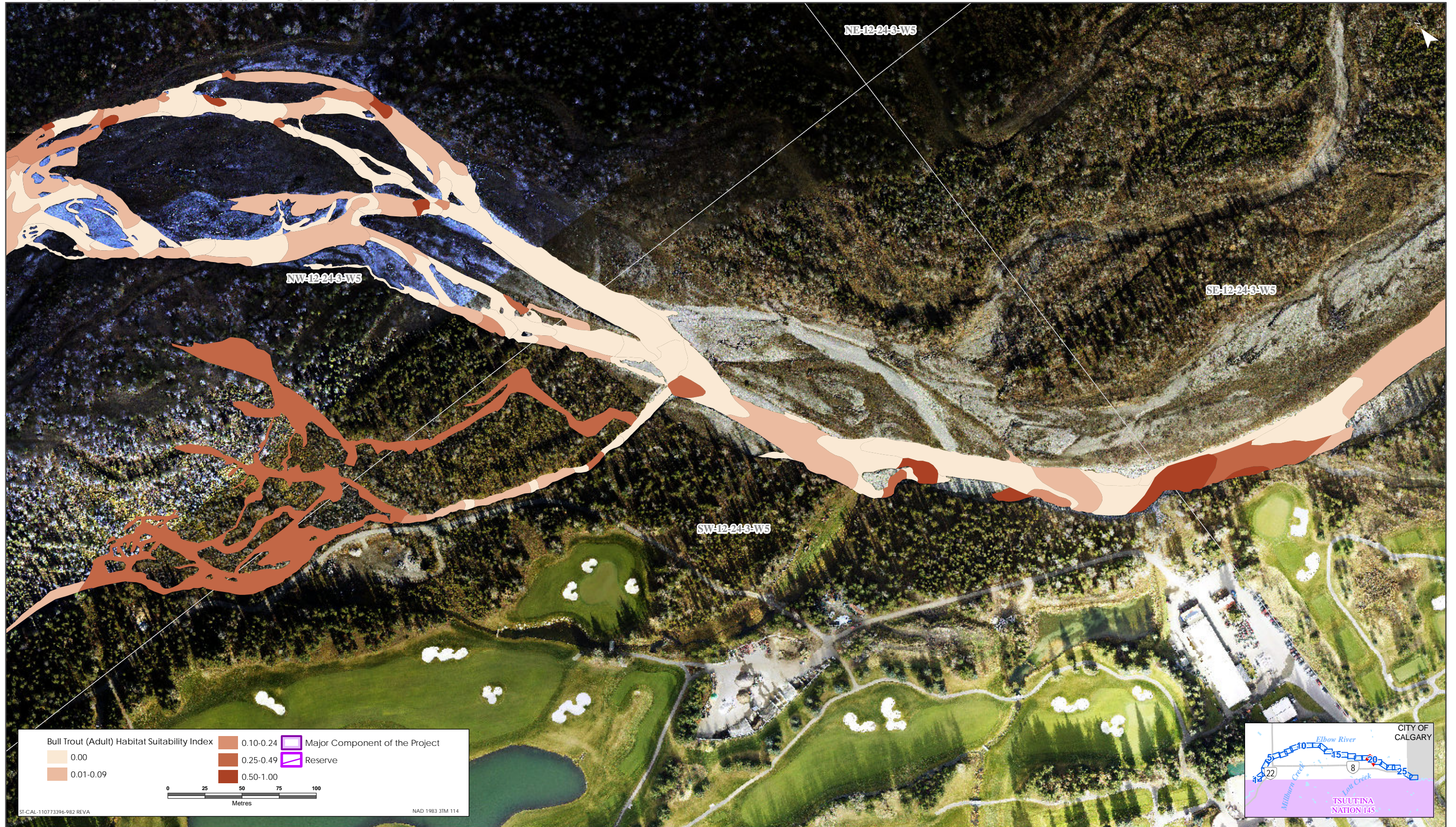
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

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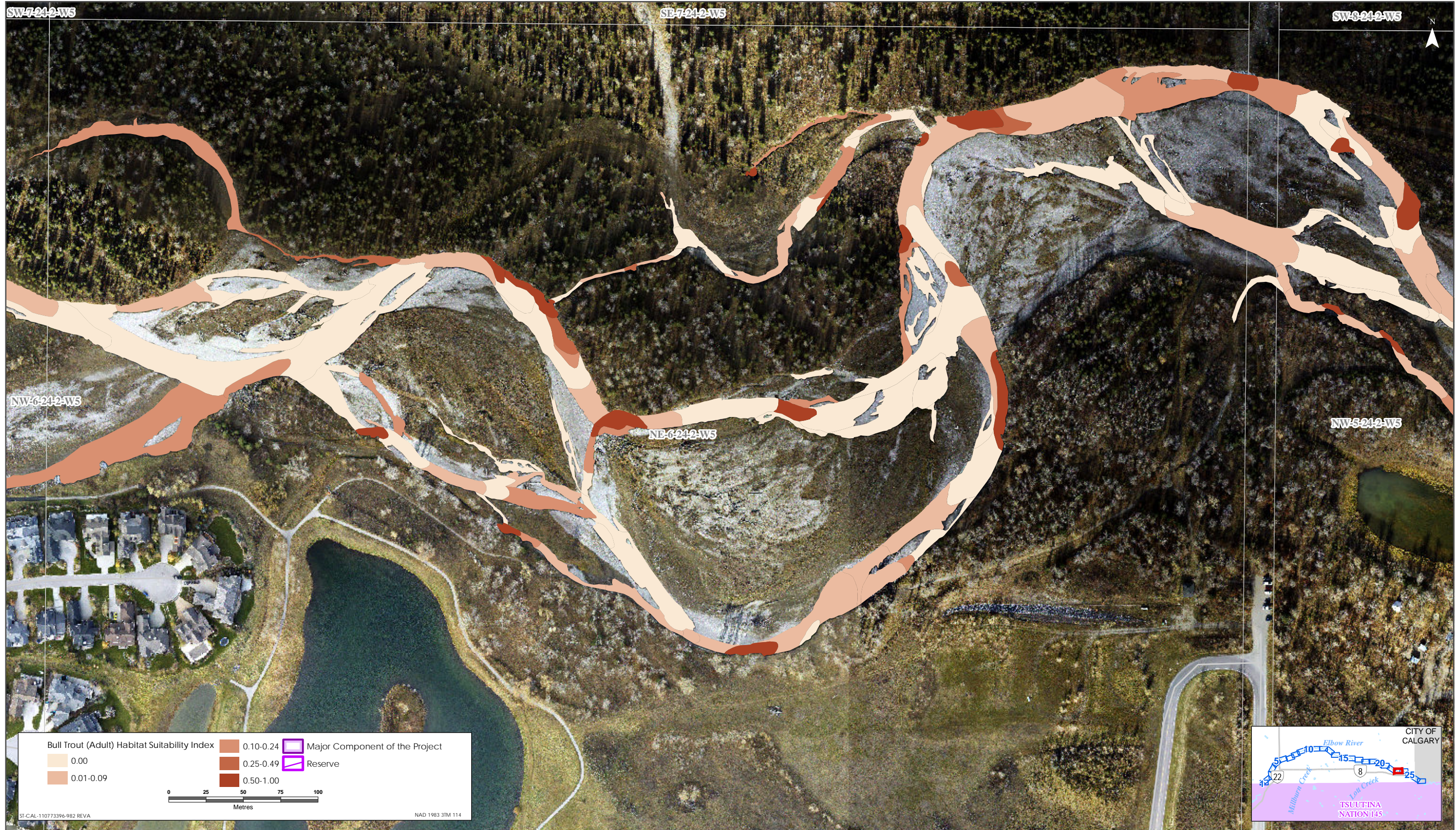
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Adult Life Stage)



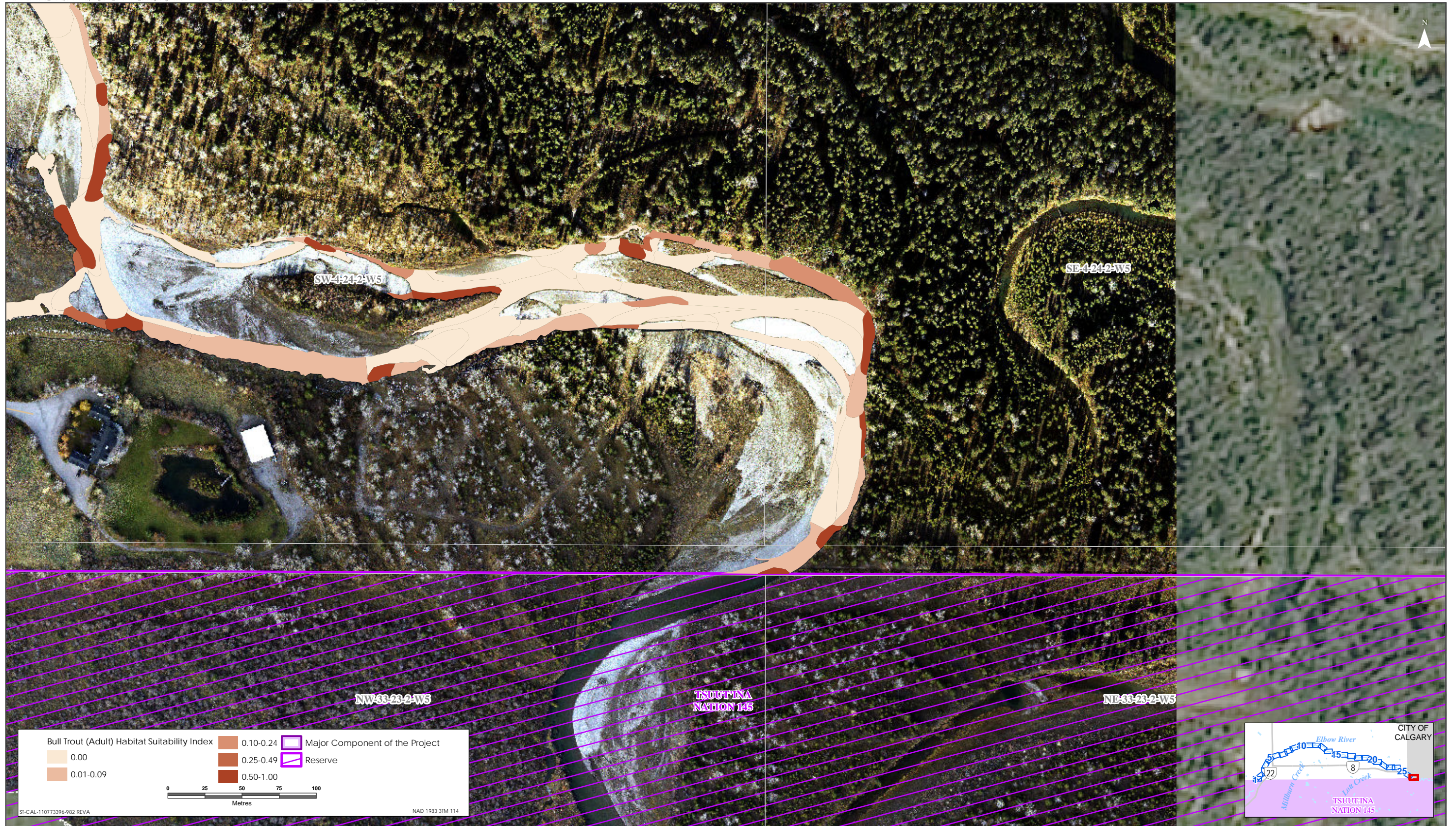
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
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Bull Trout HSI Map for Elbow River (Adult Life Stage)





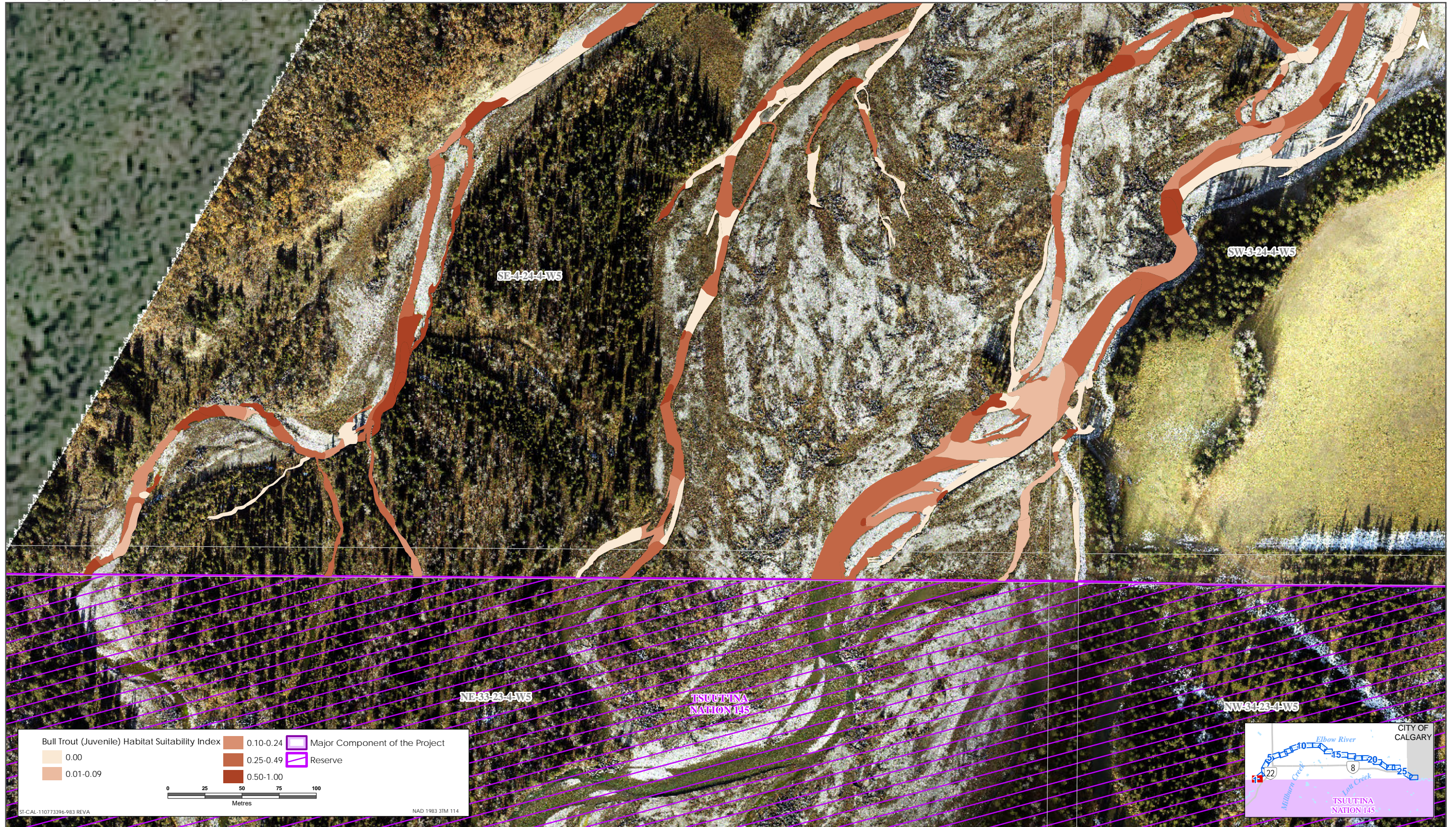
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**F.2 BULL TROUT HSI MAP FOR ELBOW RIVER (JUVENILE LIFE STAGE)**

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



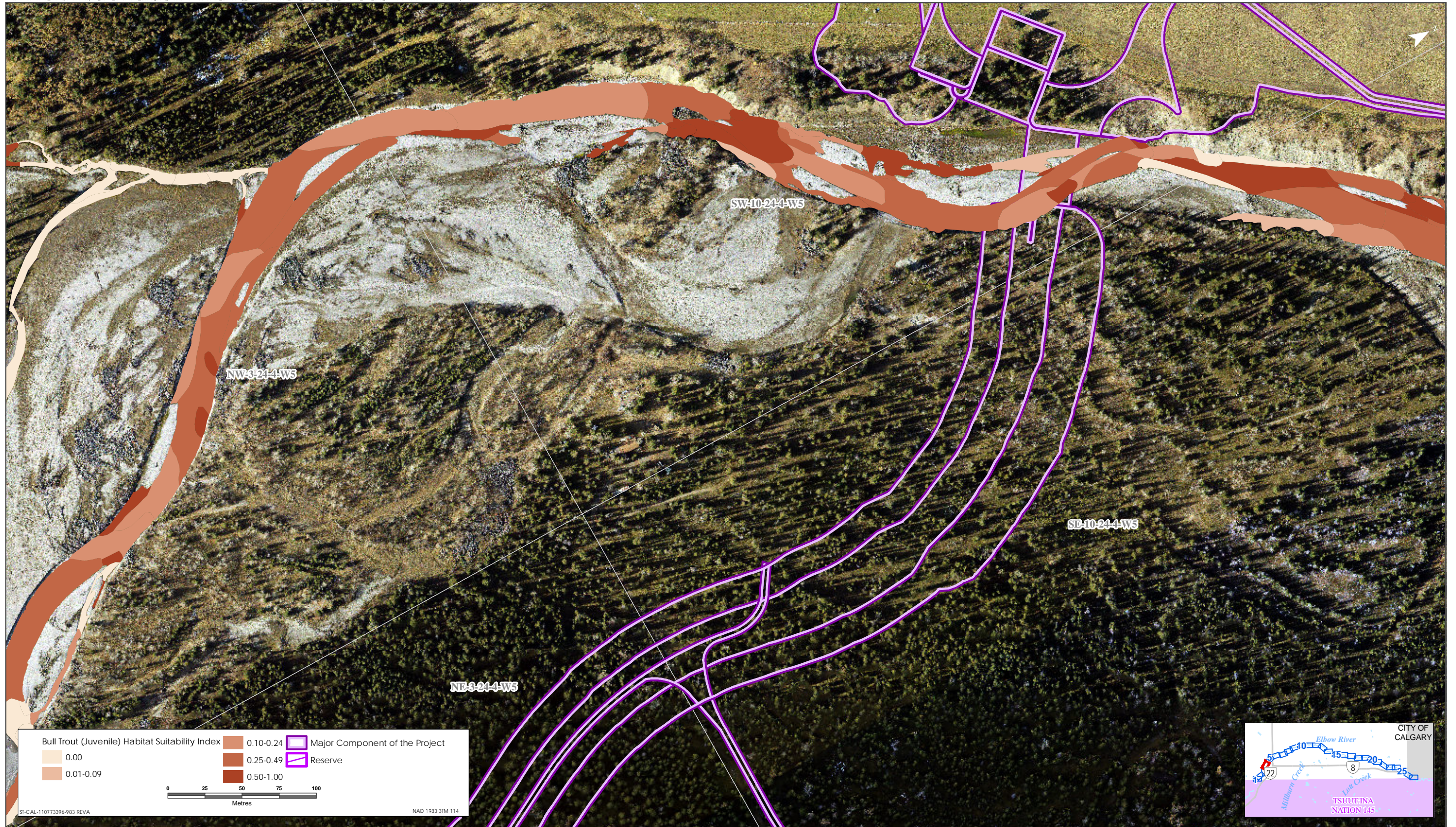
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
 Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



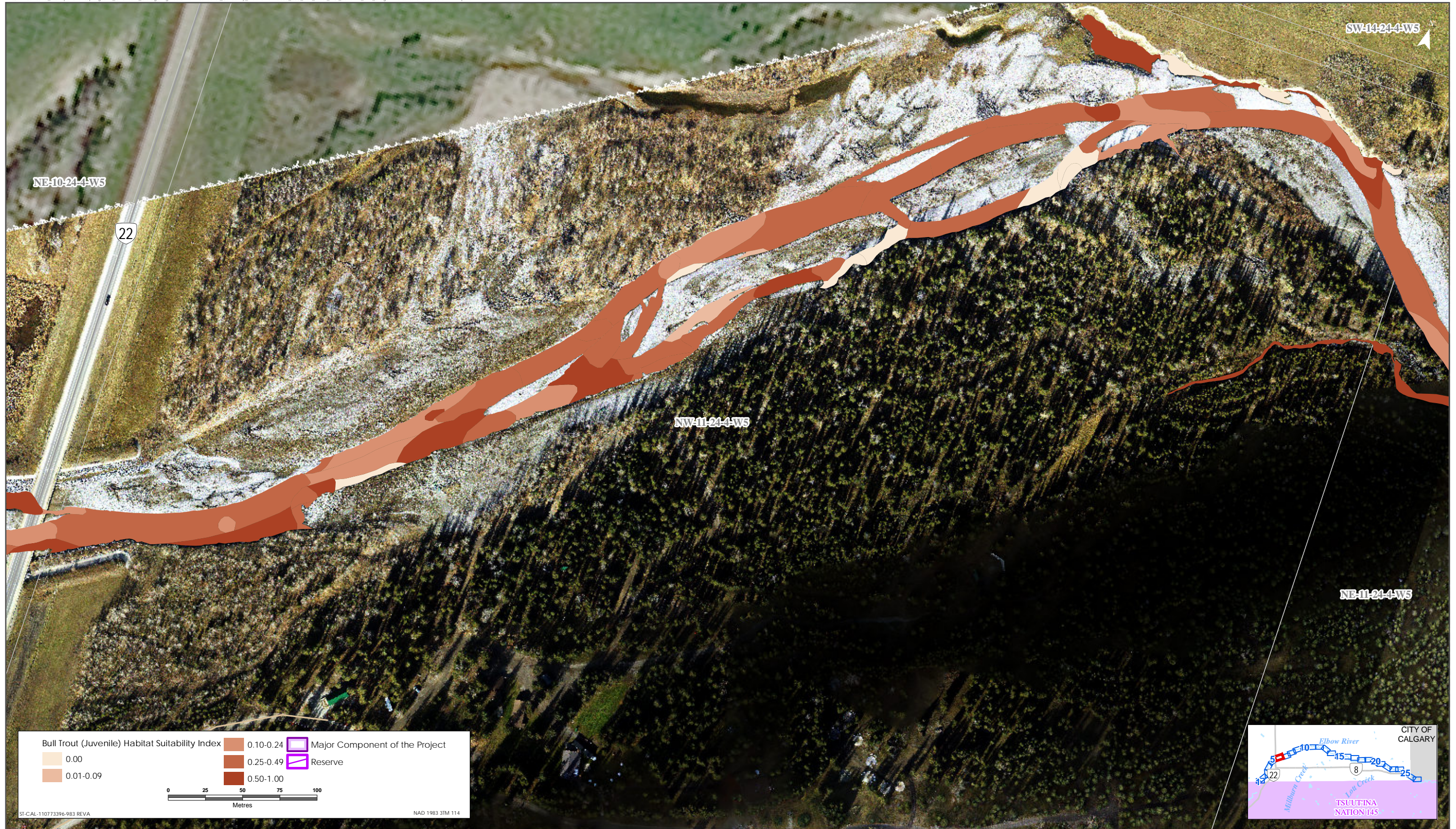
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)

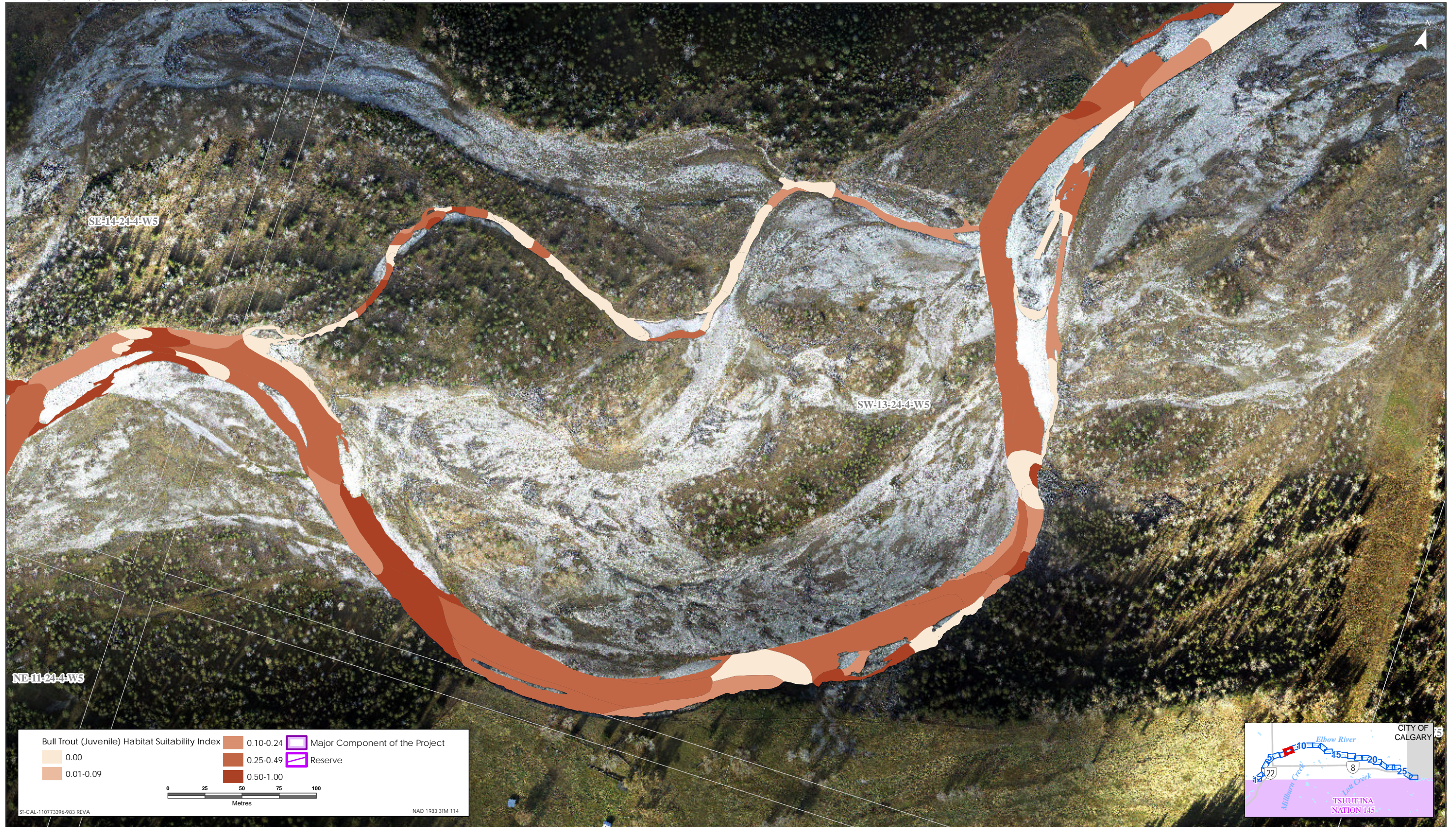






Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



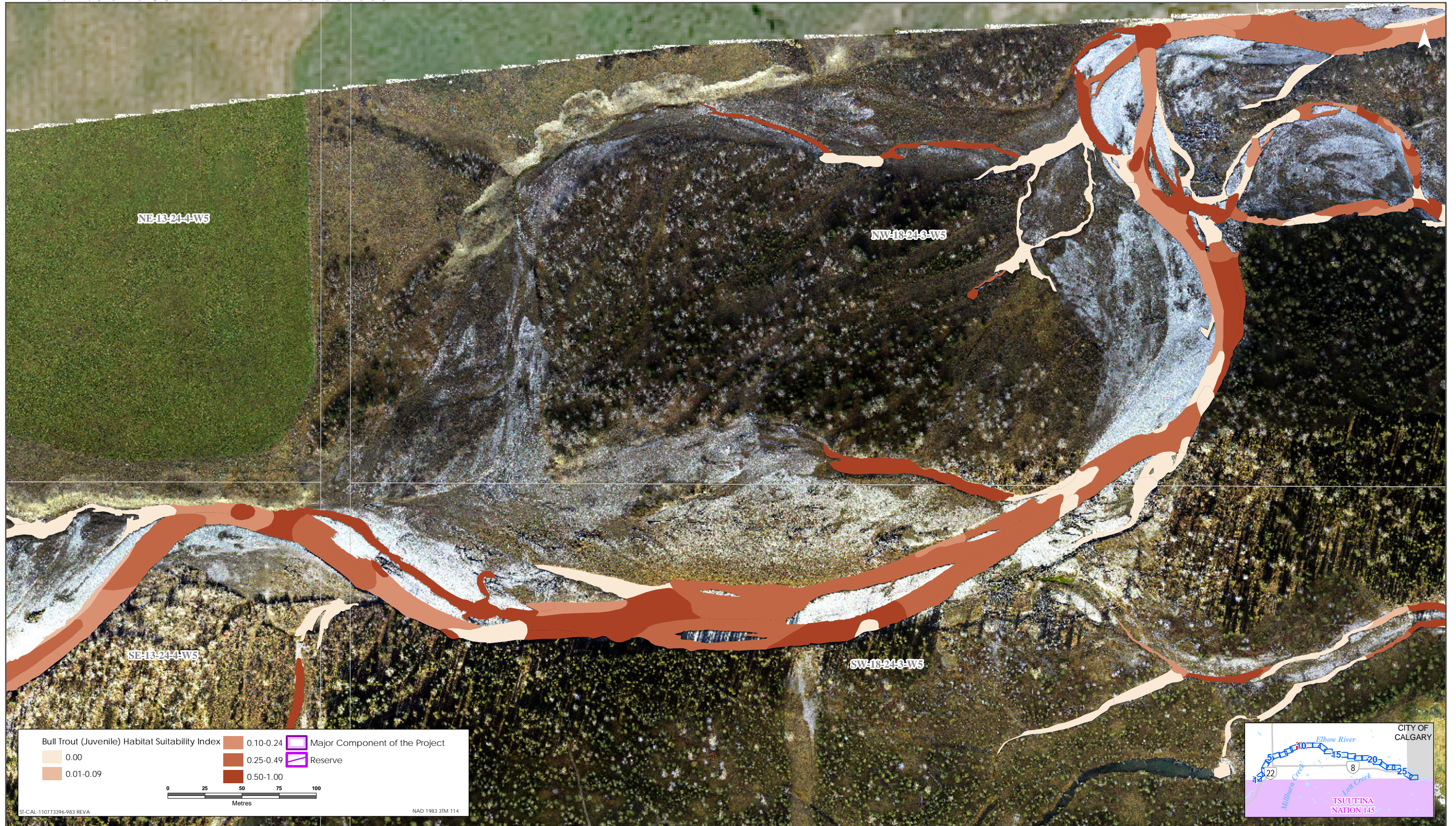
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



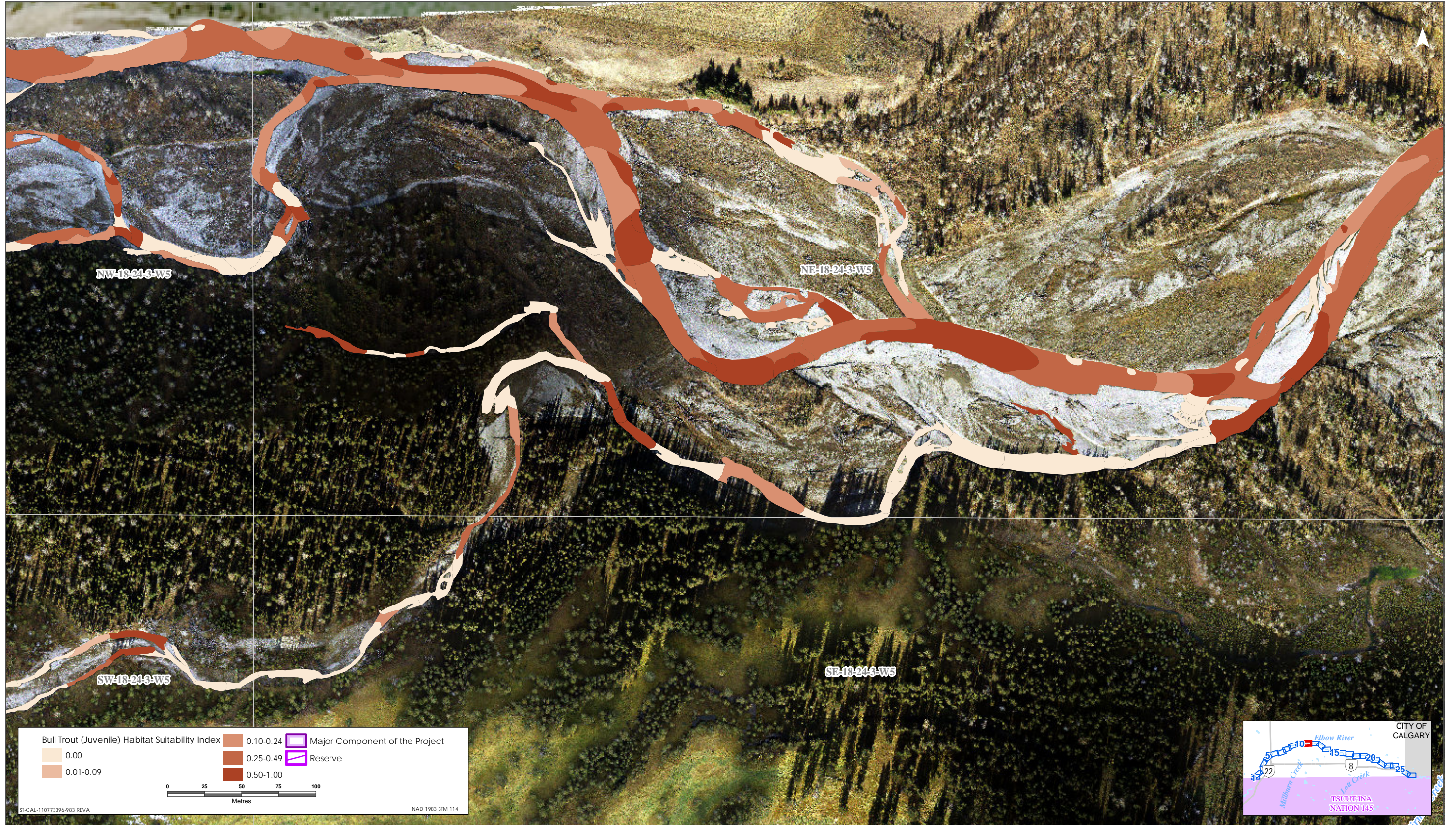
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Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



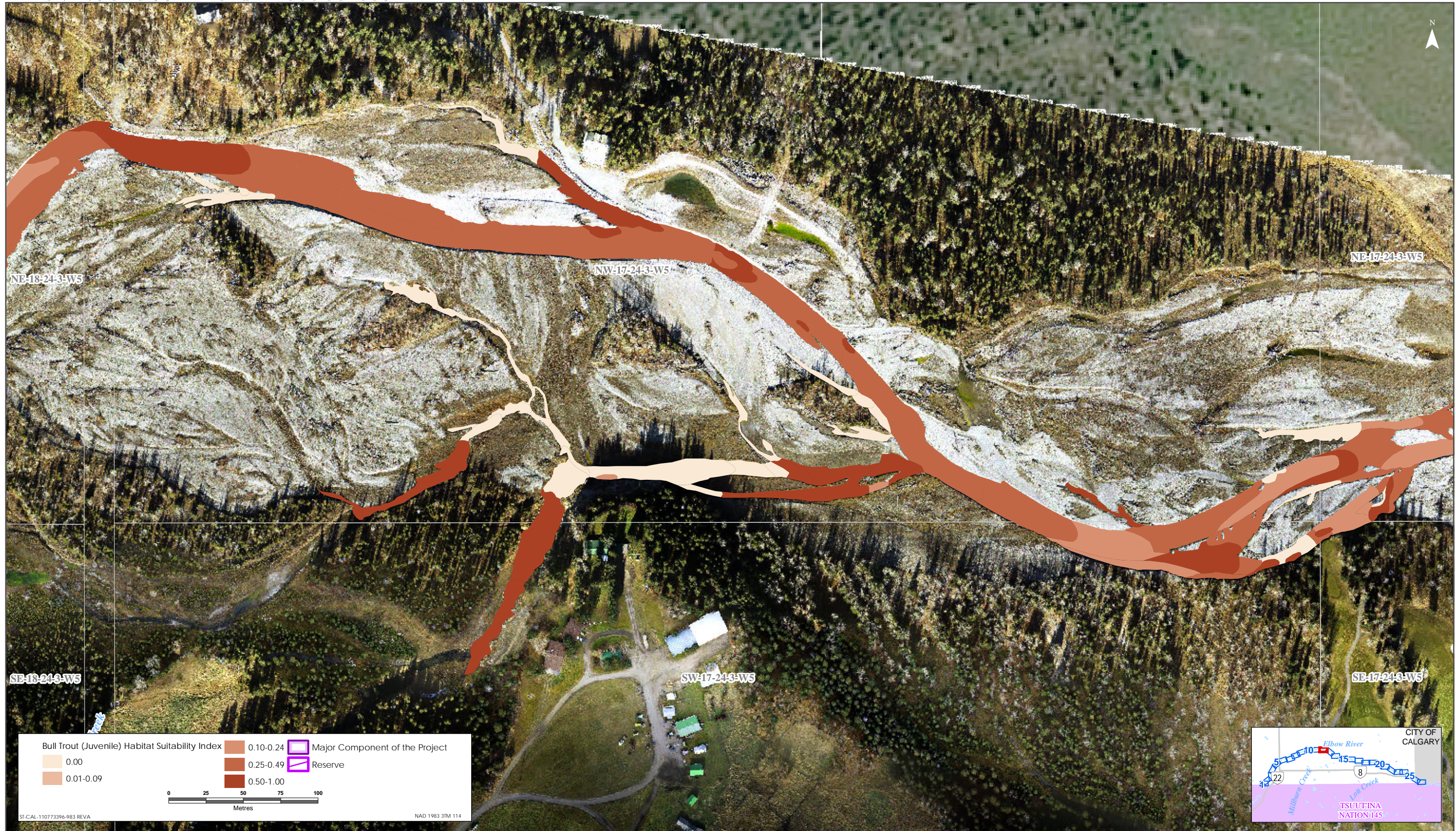
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



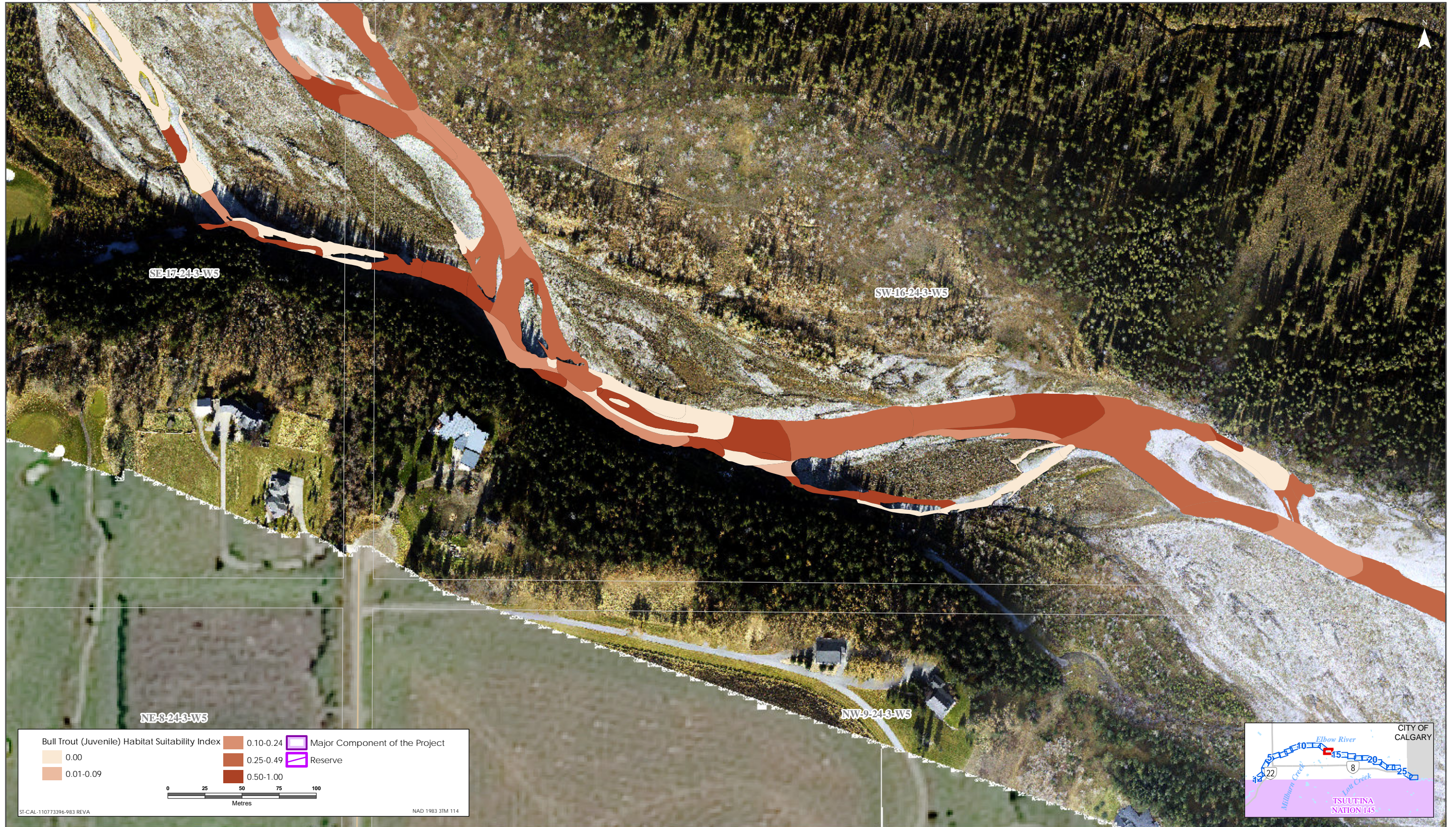
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

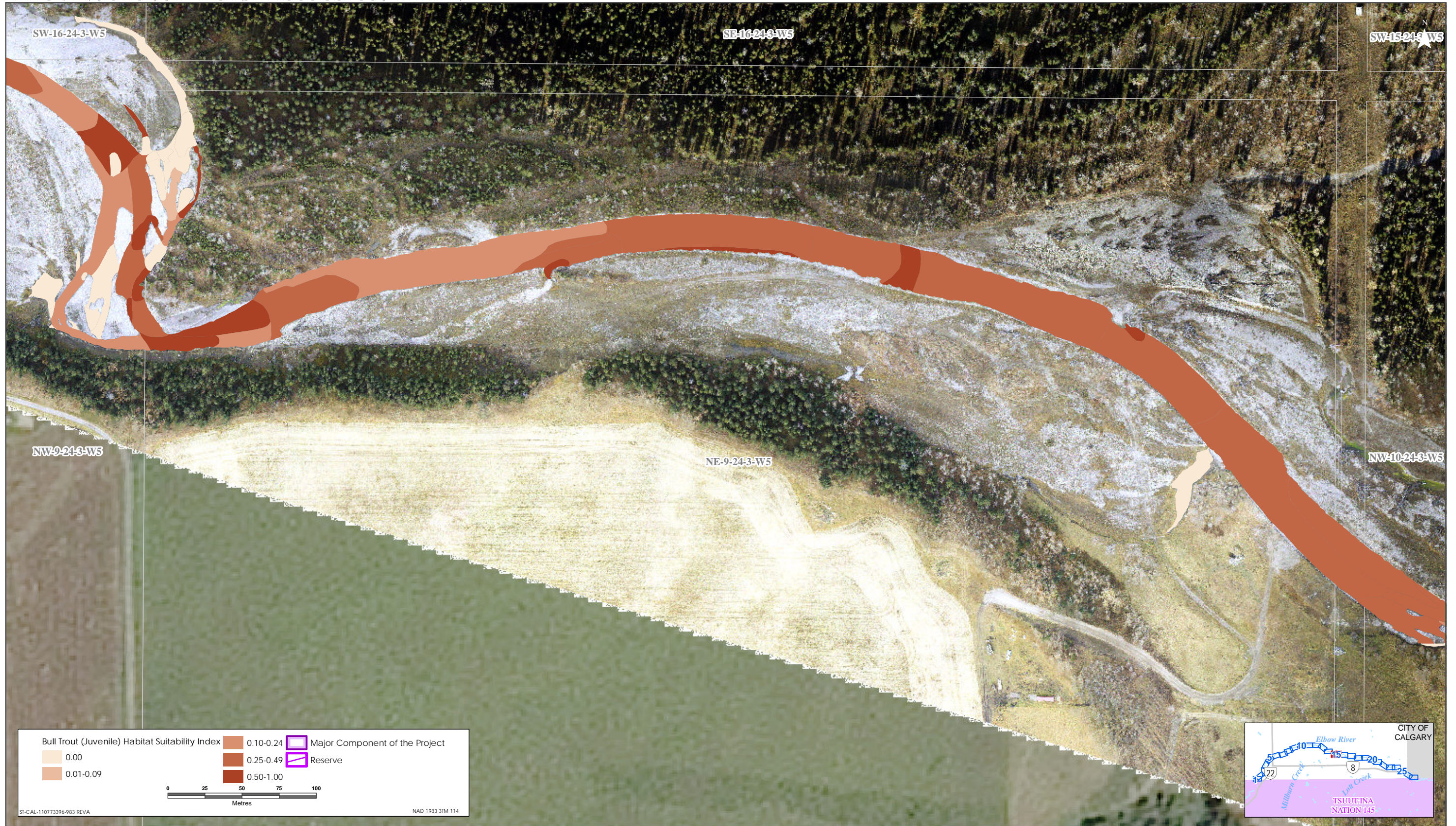
Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1m 10cm resolution October 2019

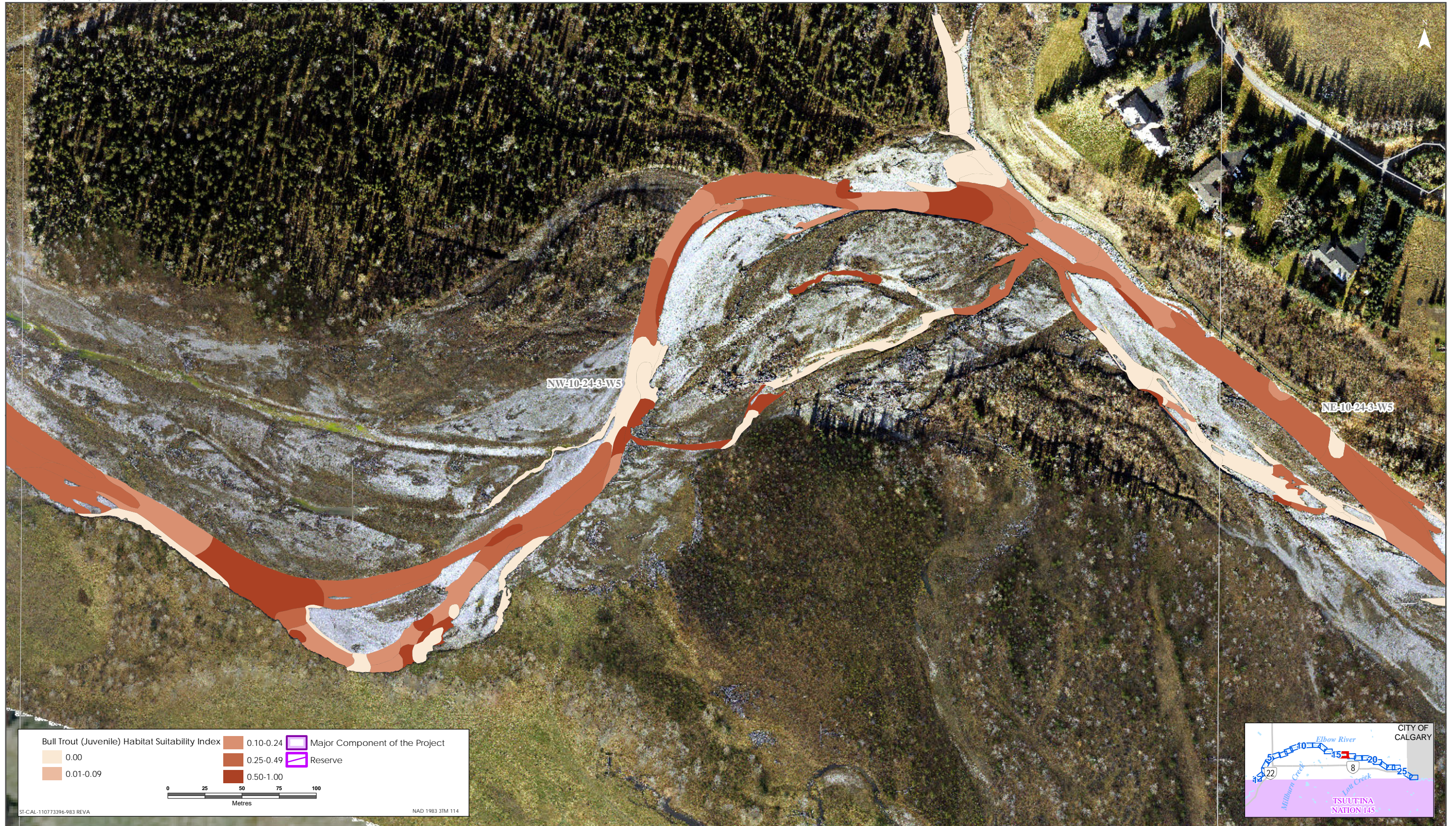
Bull Trout HSI Map for Elbow River (Juvenile Life Stage)





Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



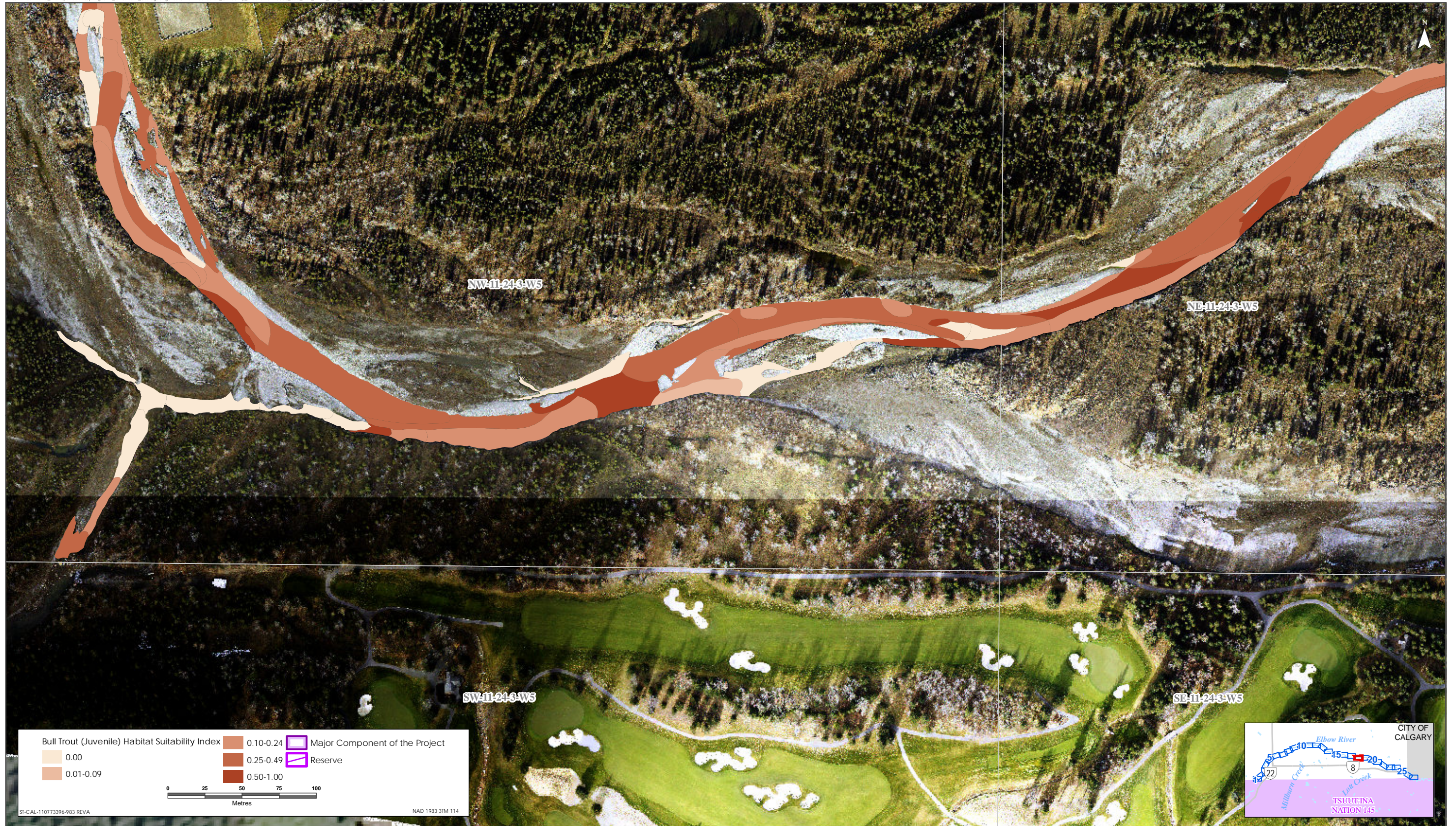
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Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



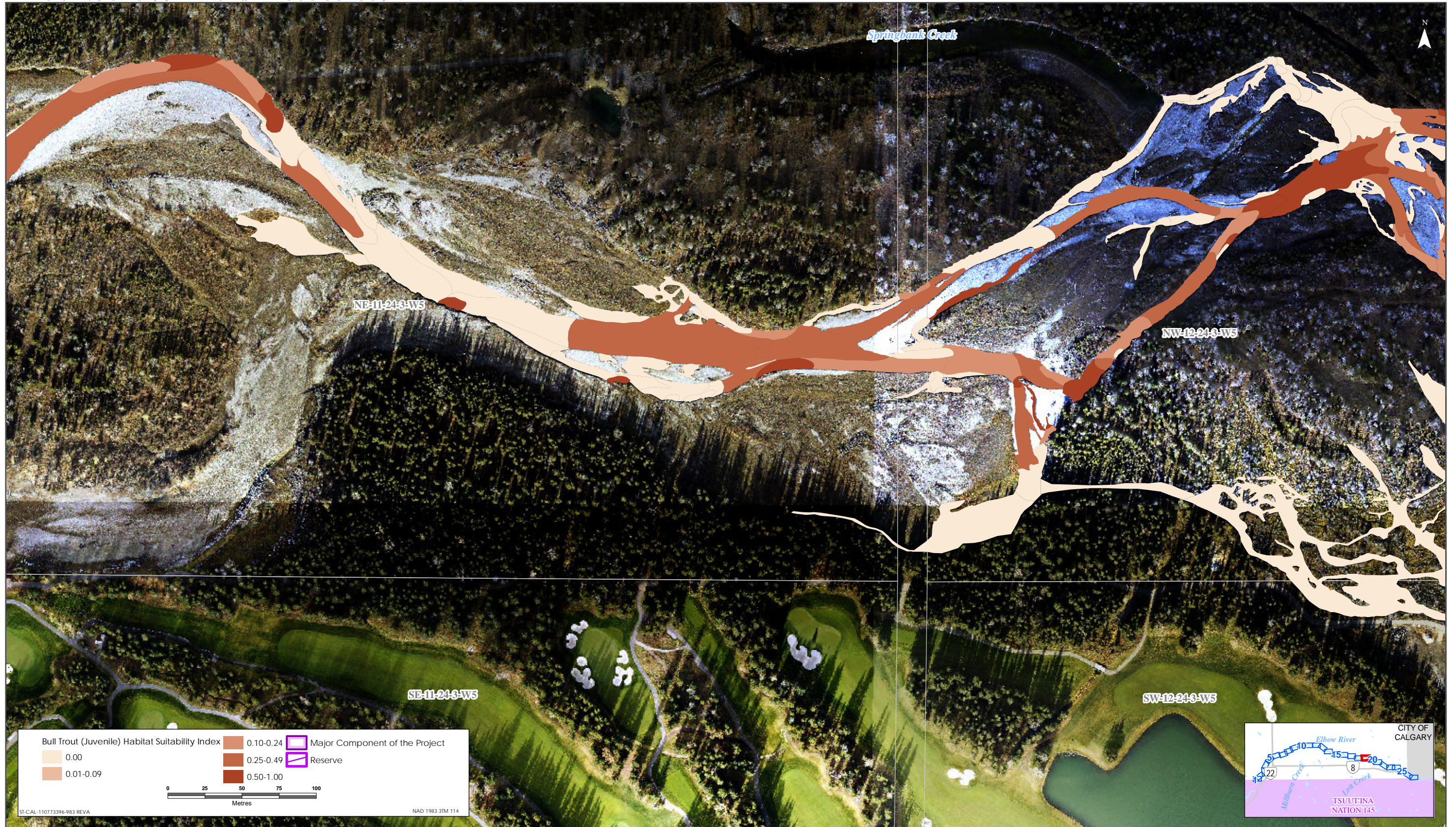
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
 Imagery: 1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Juvenile Life Stage)



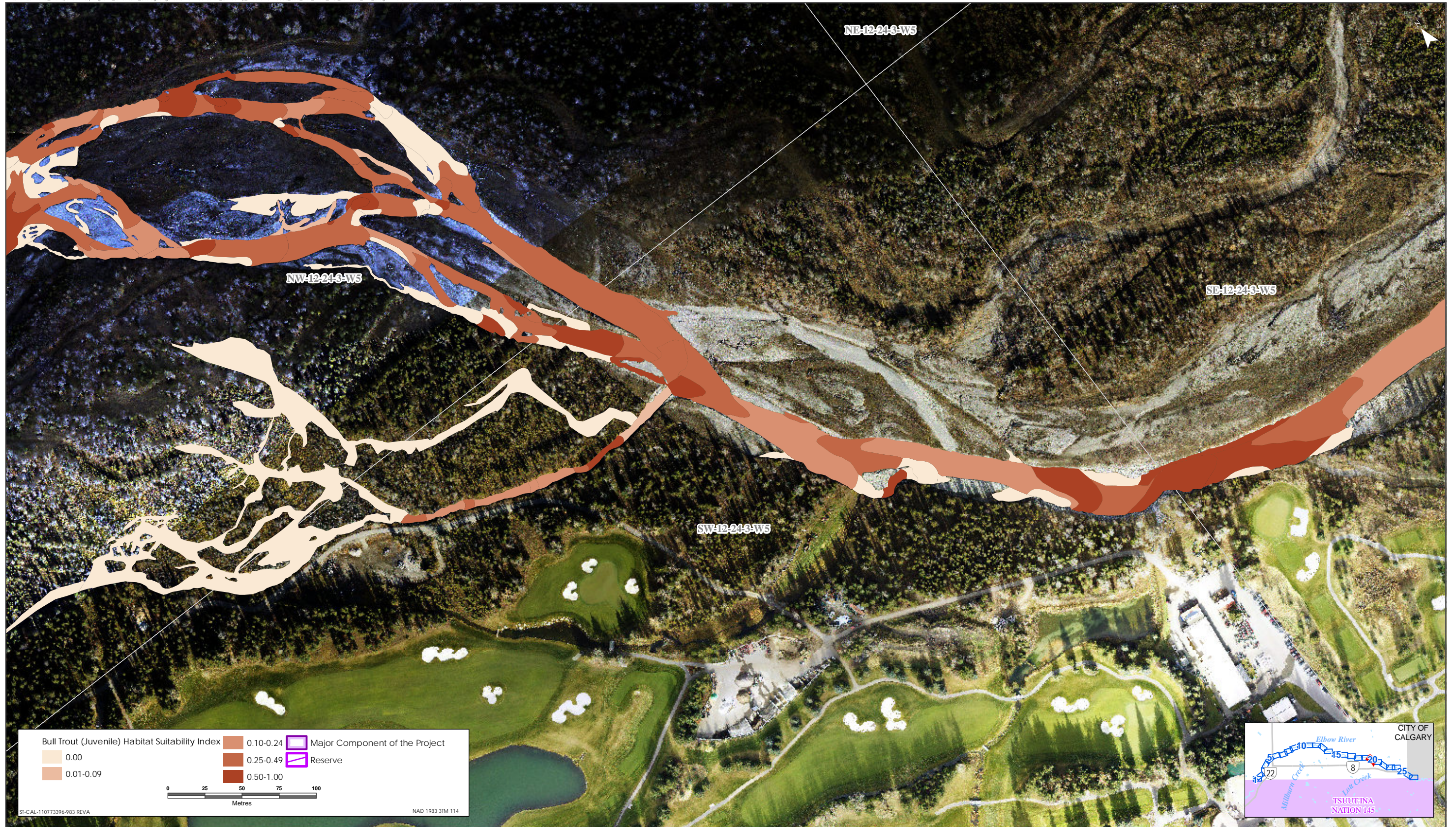
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Imagery: 1.4m 10cm resolution October 2019

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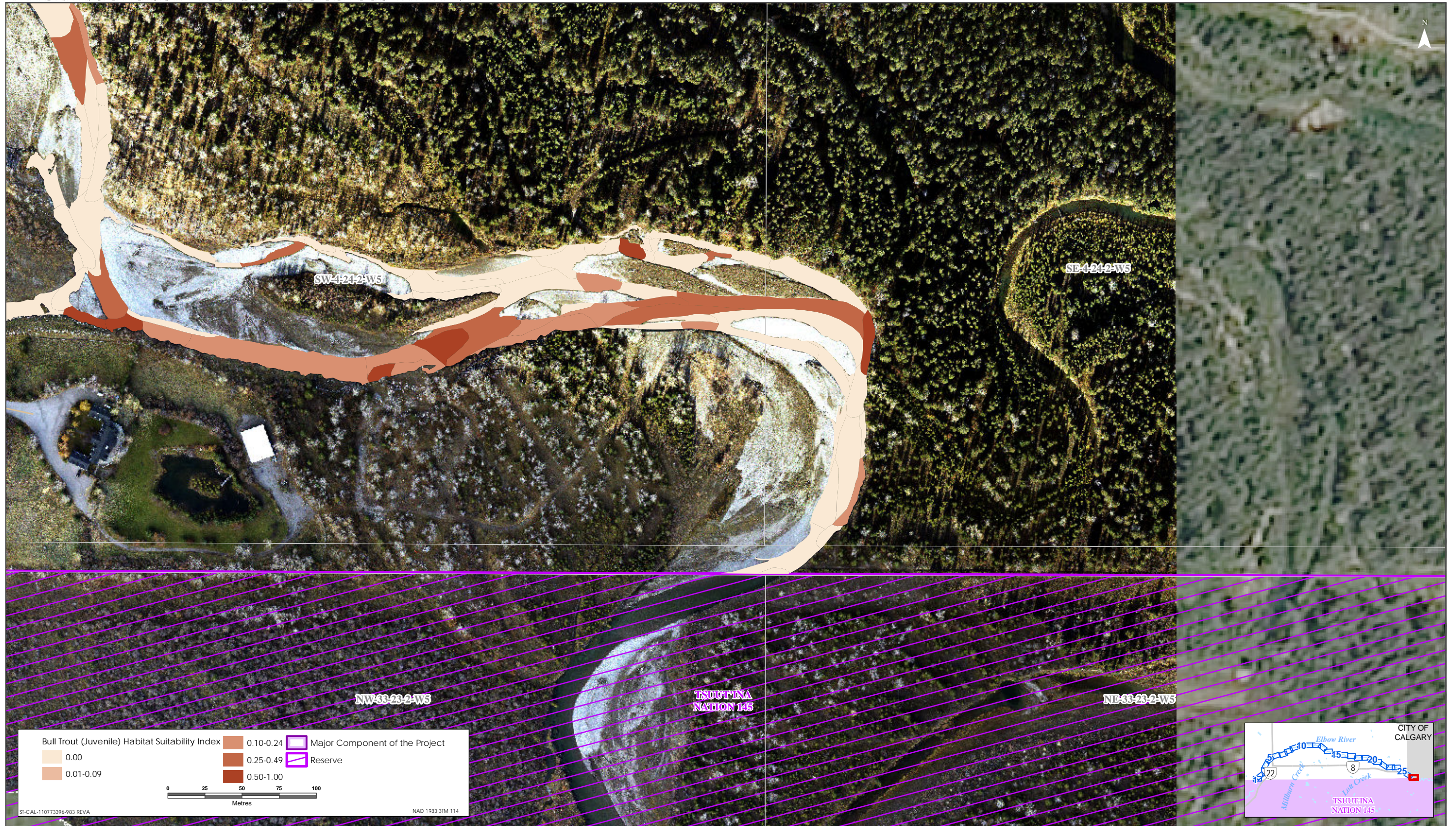
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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

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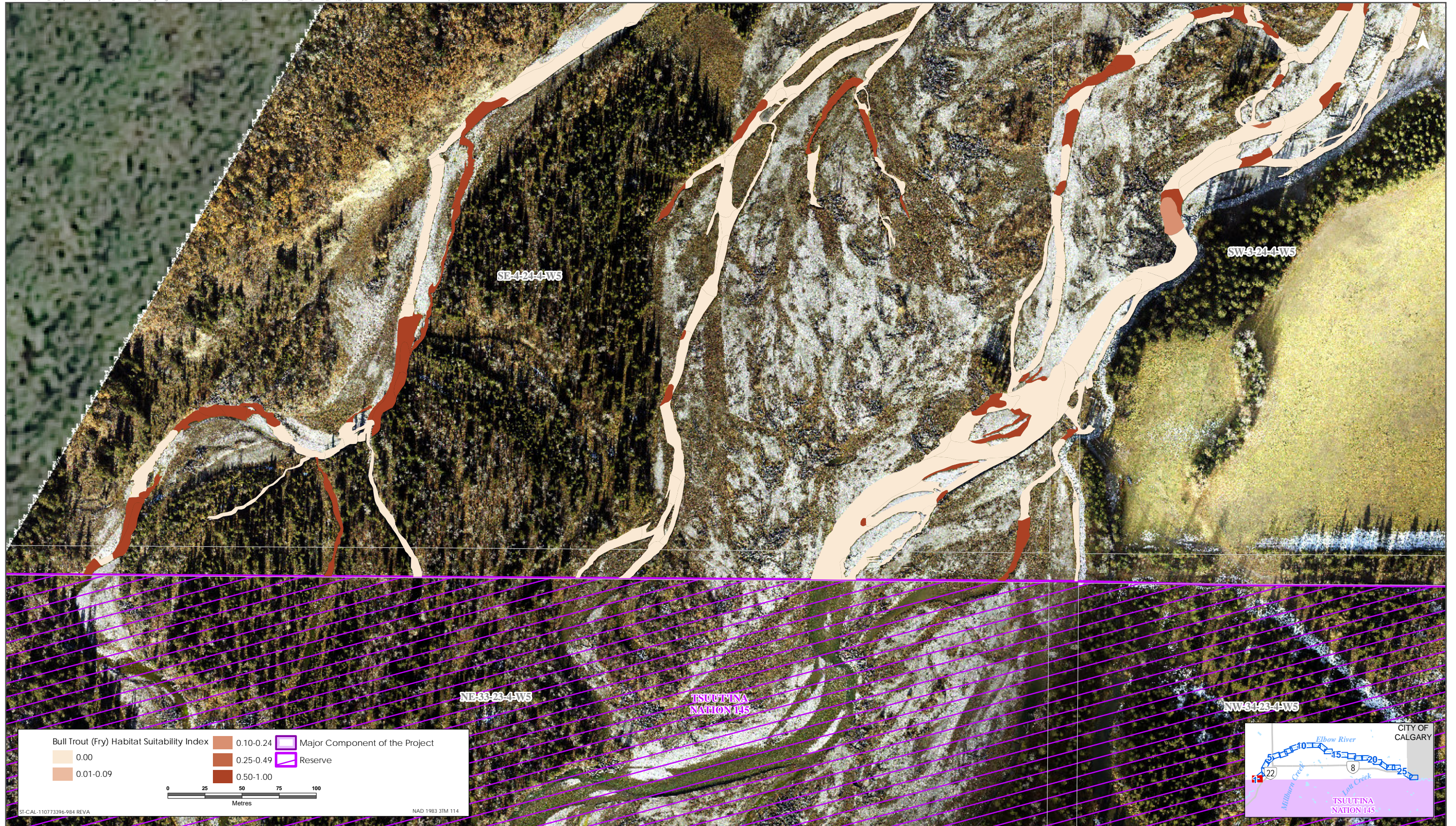
Attachment F Elbow River HSI Distribution Map Books for Bull Trout  
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**F.3 BULL TROUT HSI MAP FOR ELBOW RIVER (FRY LIFE STAGE)**

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



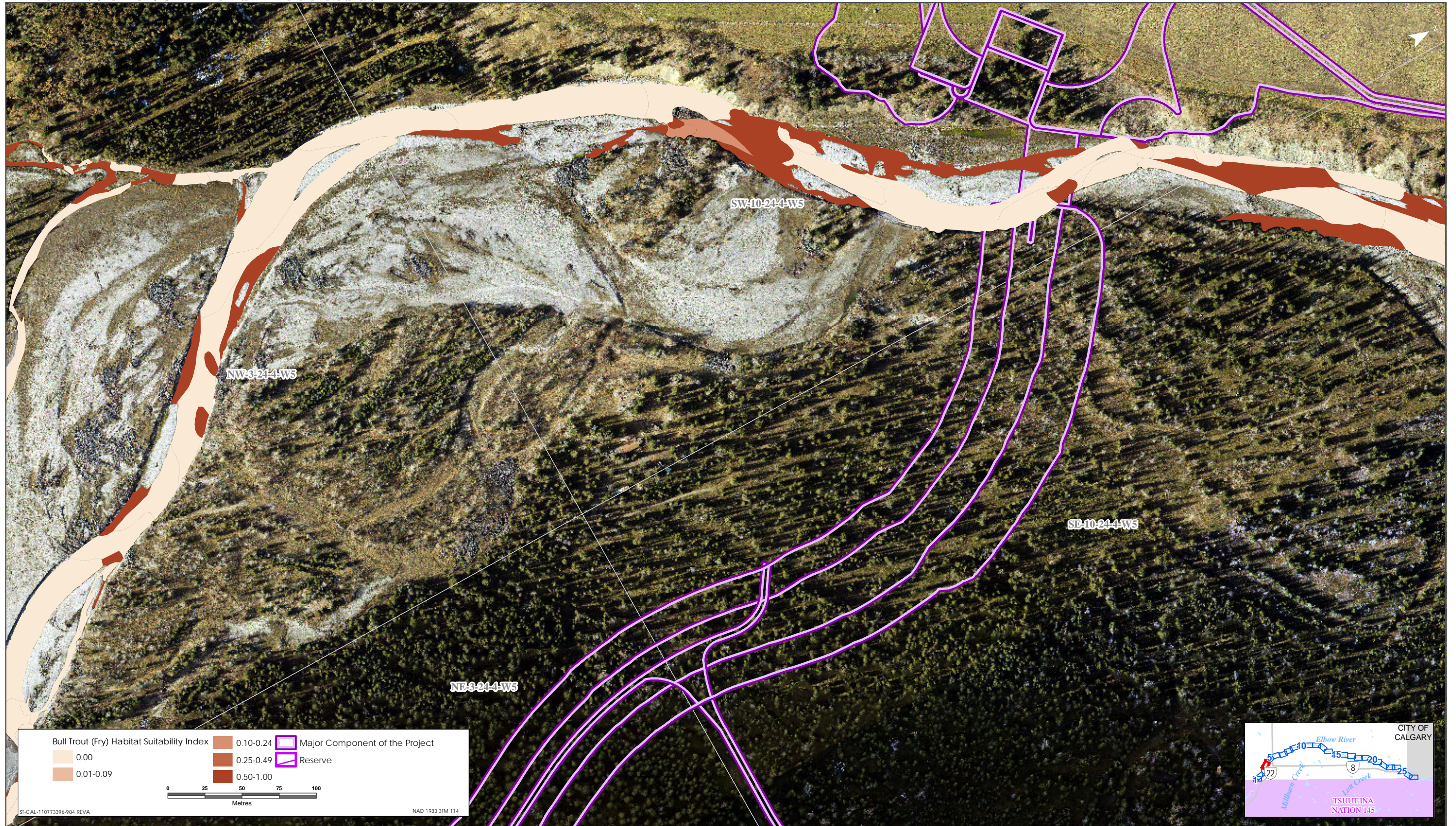
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
Imagery: 1:10cm resolution October 2019

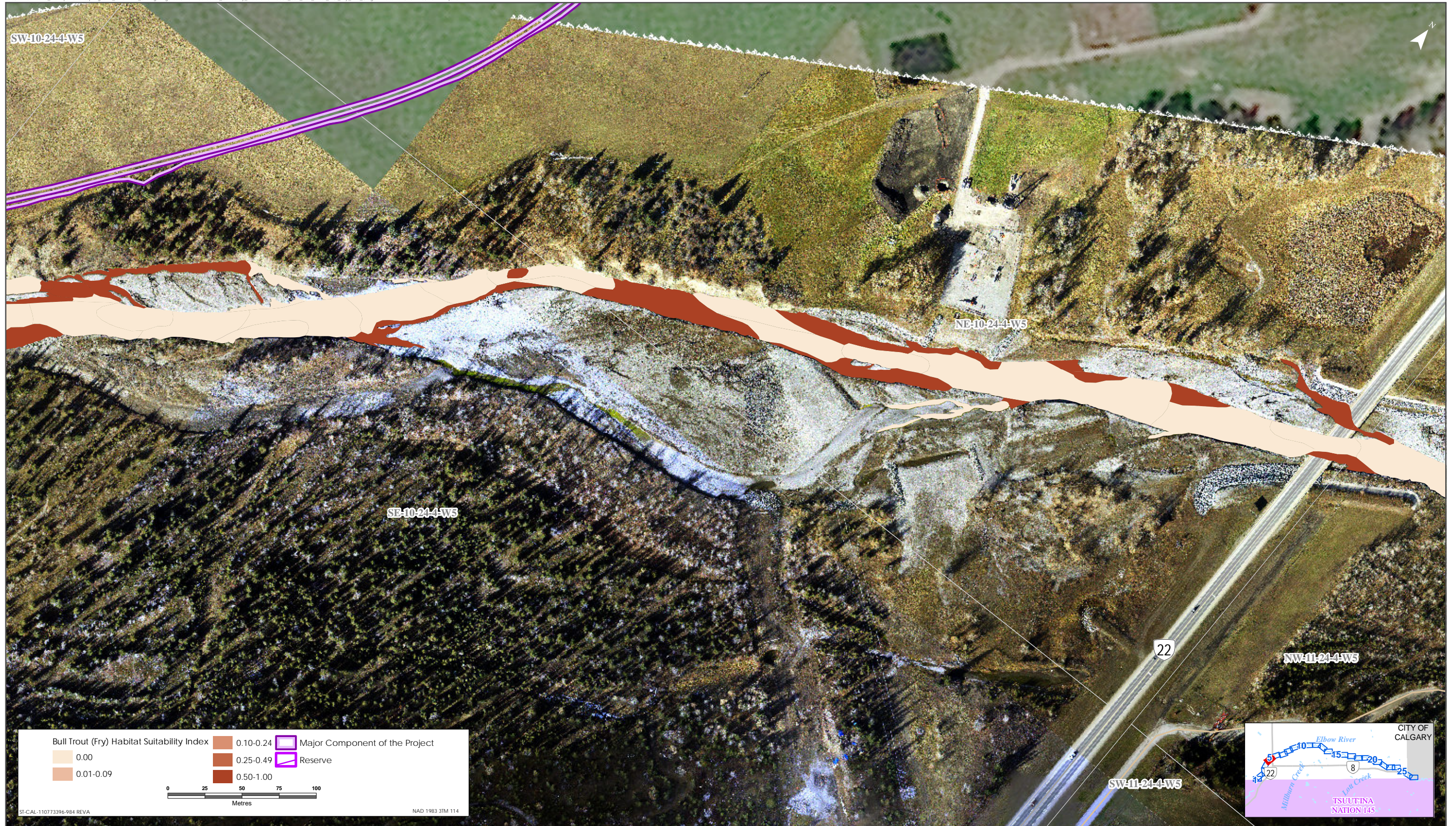
Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)





Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Bull Trout (Fry) Habitat Suitability Index		0.10-0.24	Major Component of the Project
0.00	0.25-0.49	0.50-1.00	Reserve
0.01-0.09			

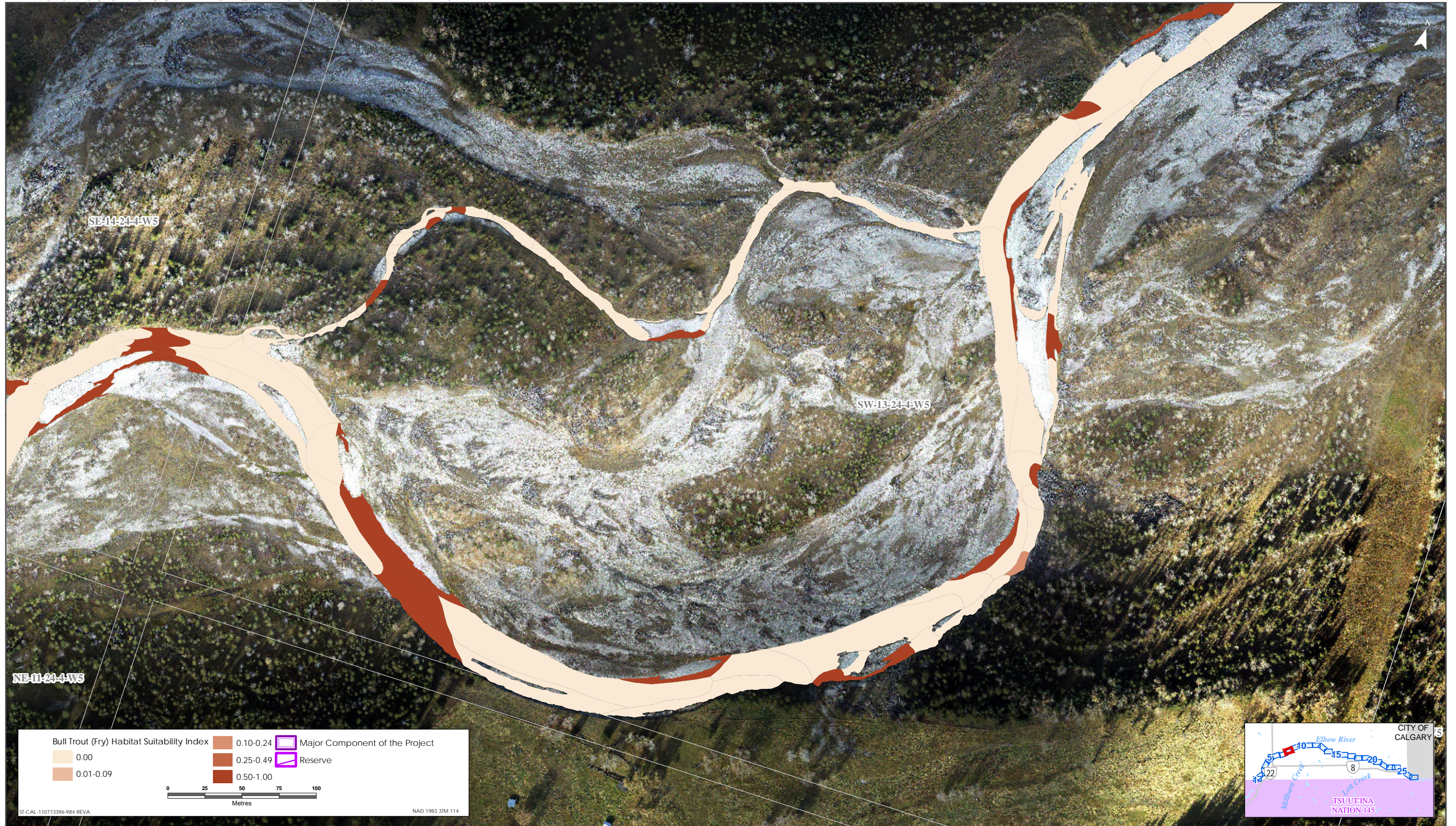
0 25 50 75 100 Metres

ST-CAL-110773396-984 REVA NAD 1983 31M 114

Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)





Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)





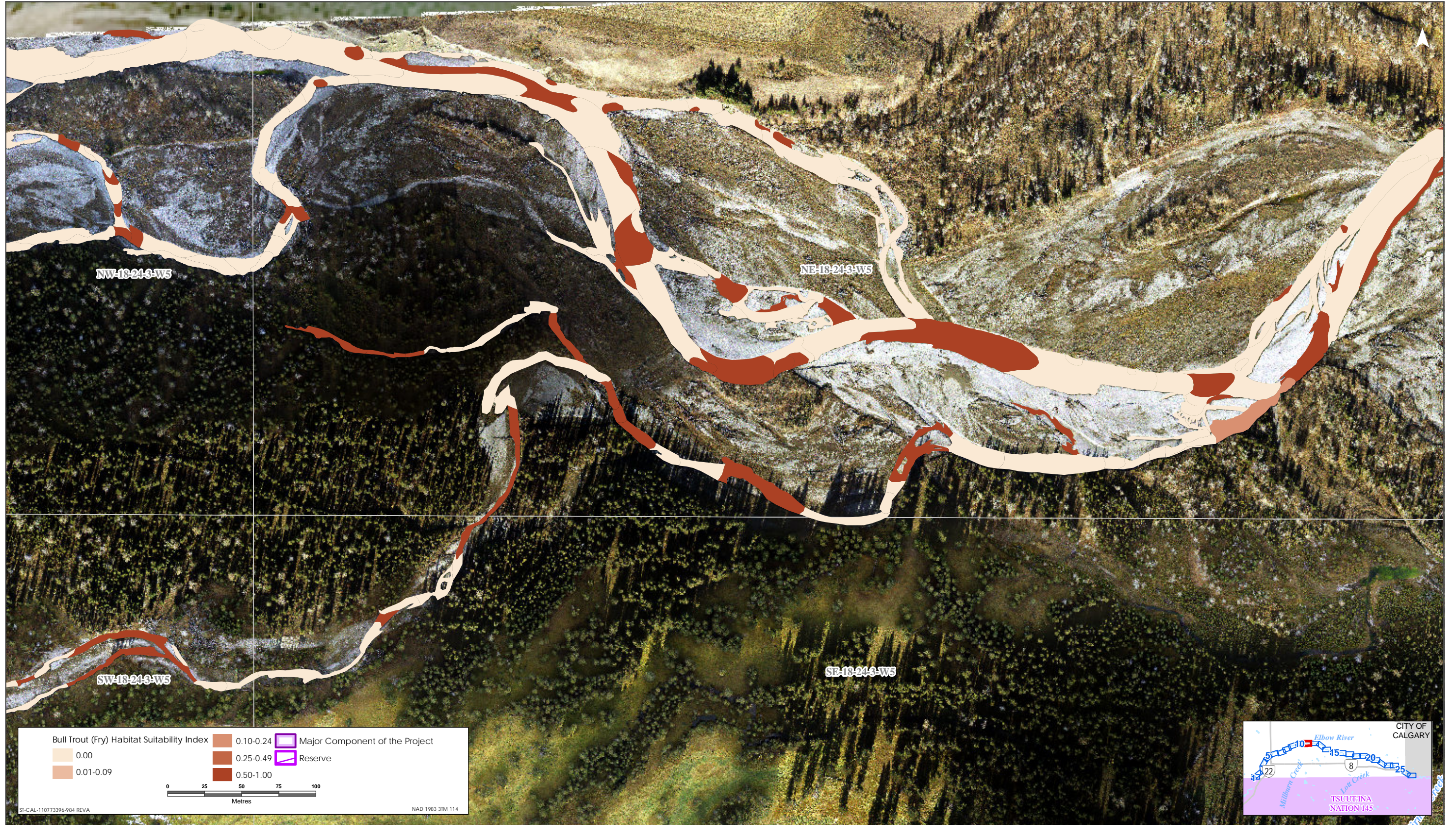
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



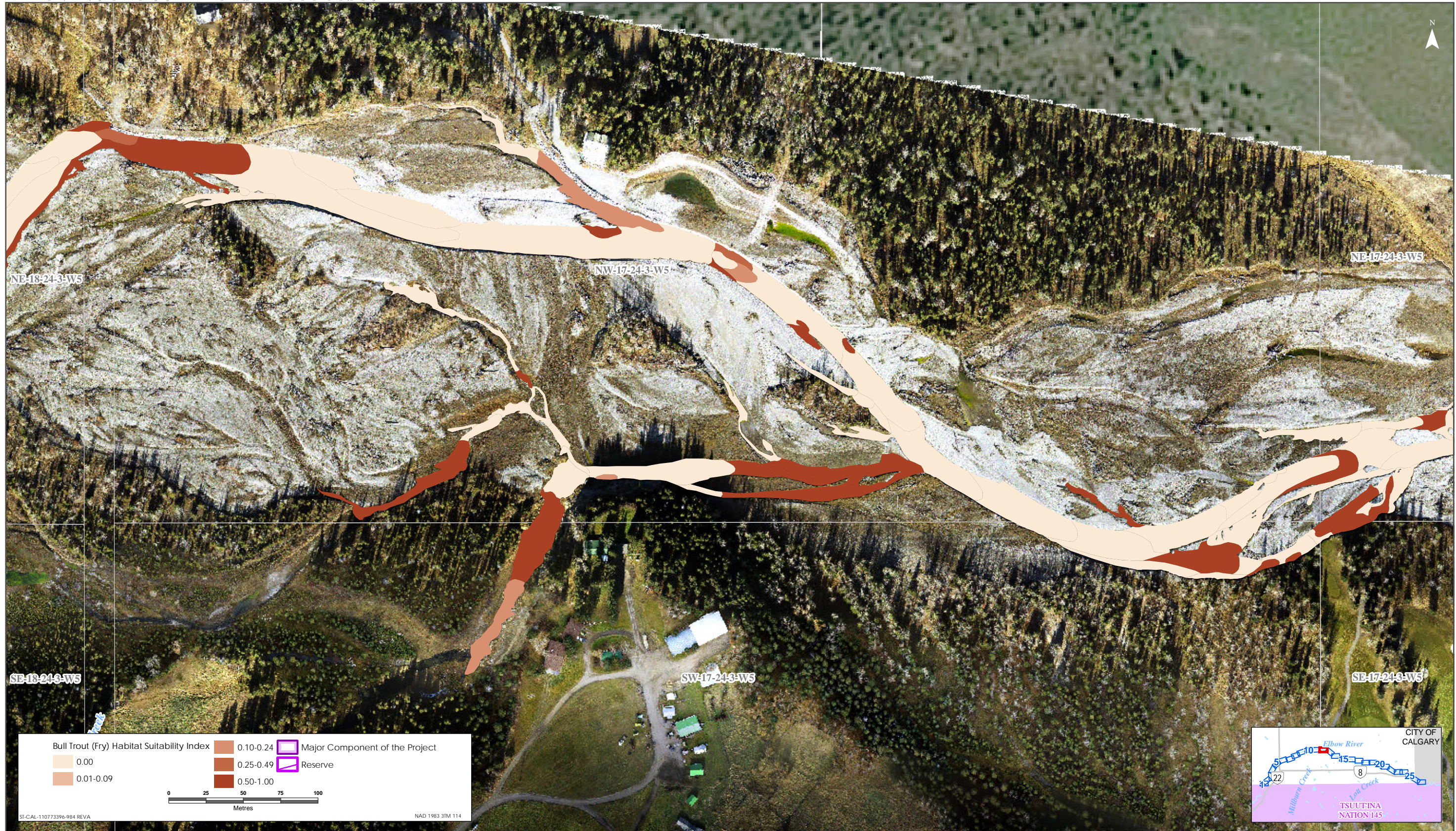
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
 Imagery: 1-Air 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



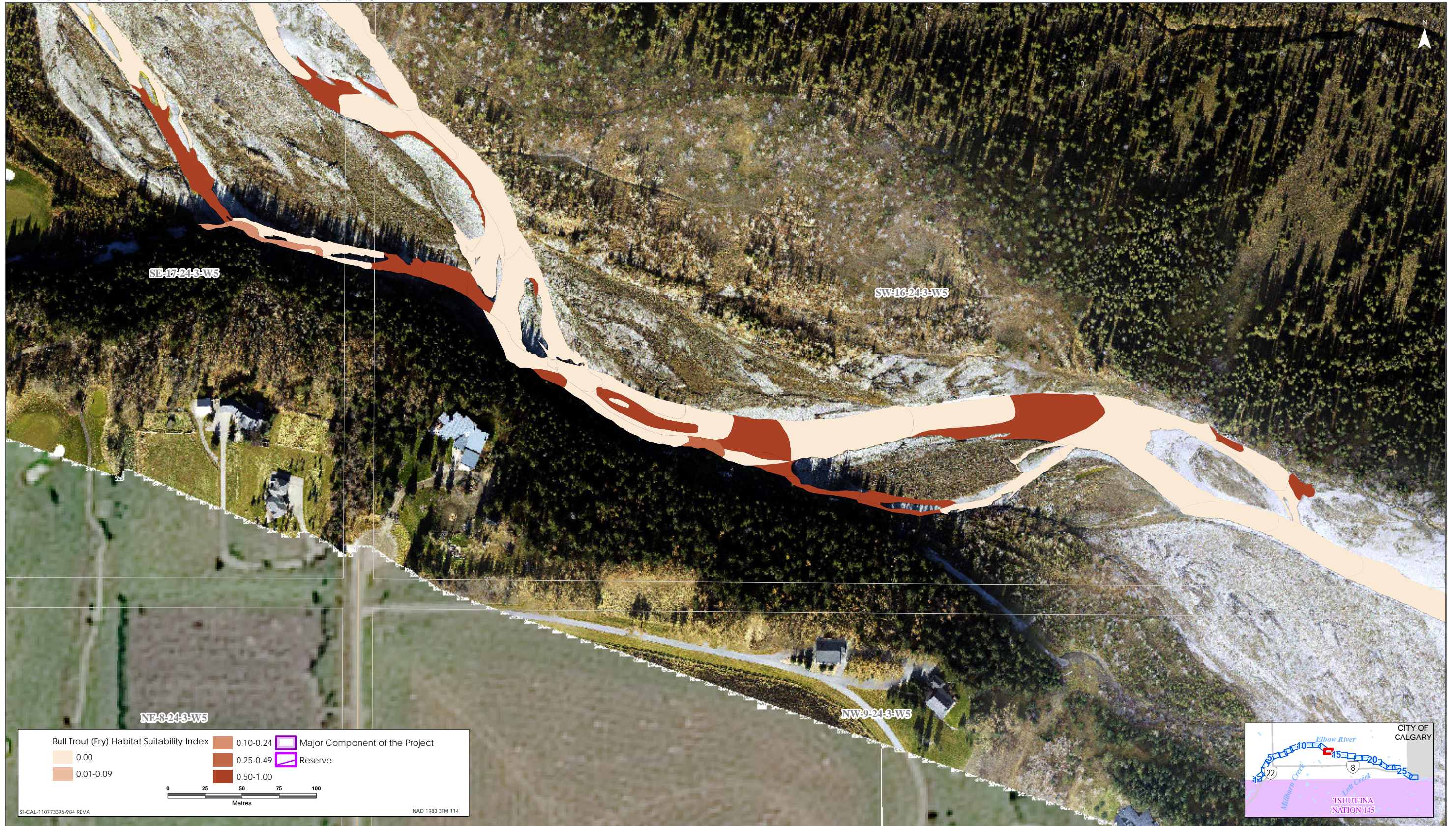
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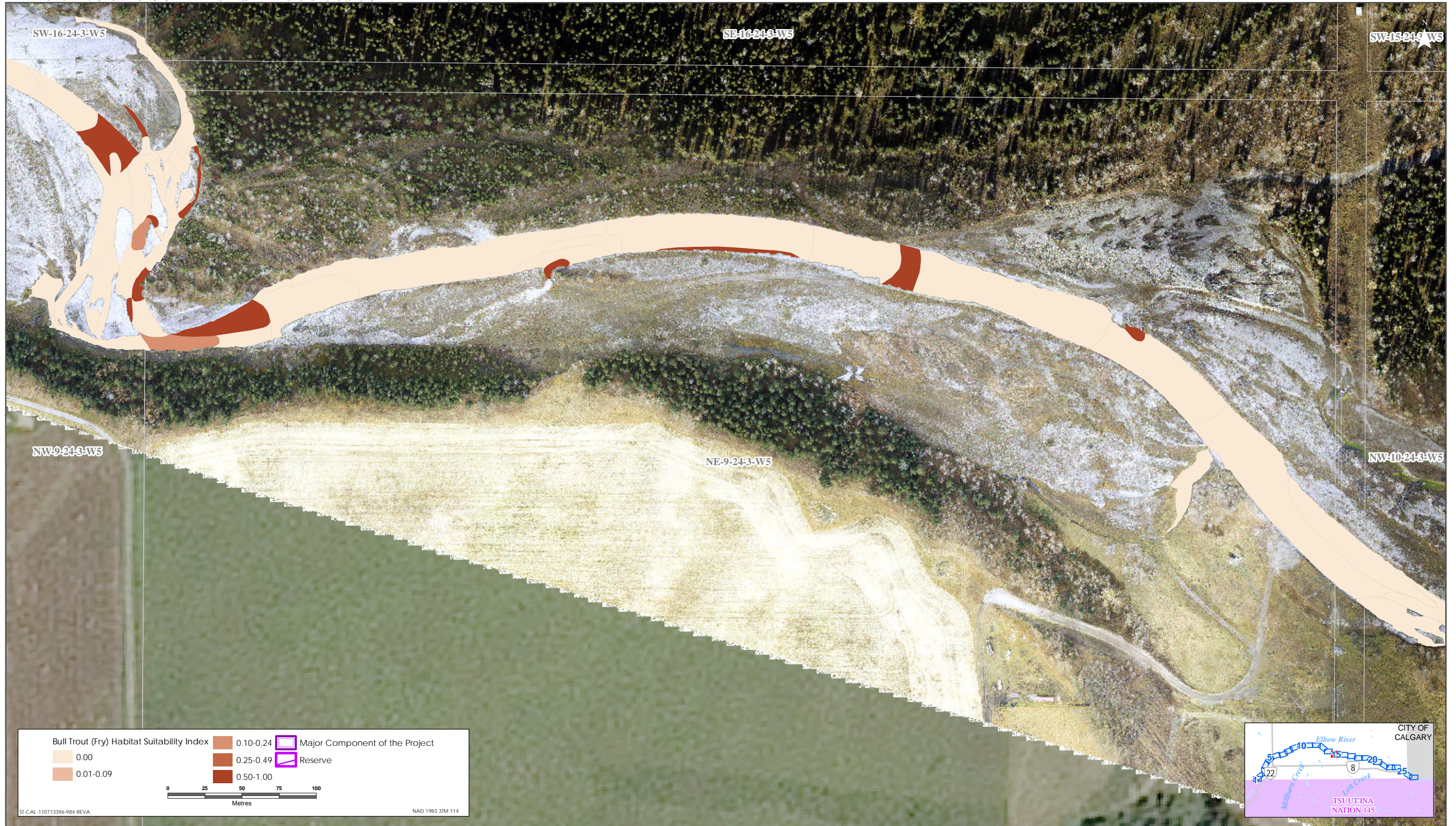
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Bull Trout HSI Map for Elbow River (Fry Life Stage)





Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

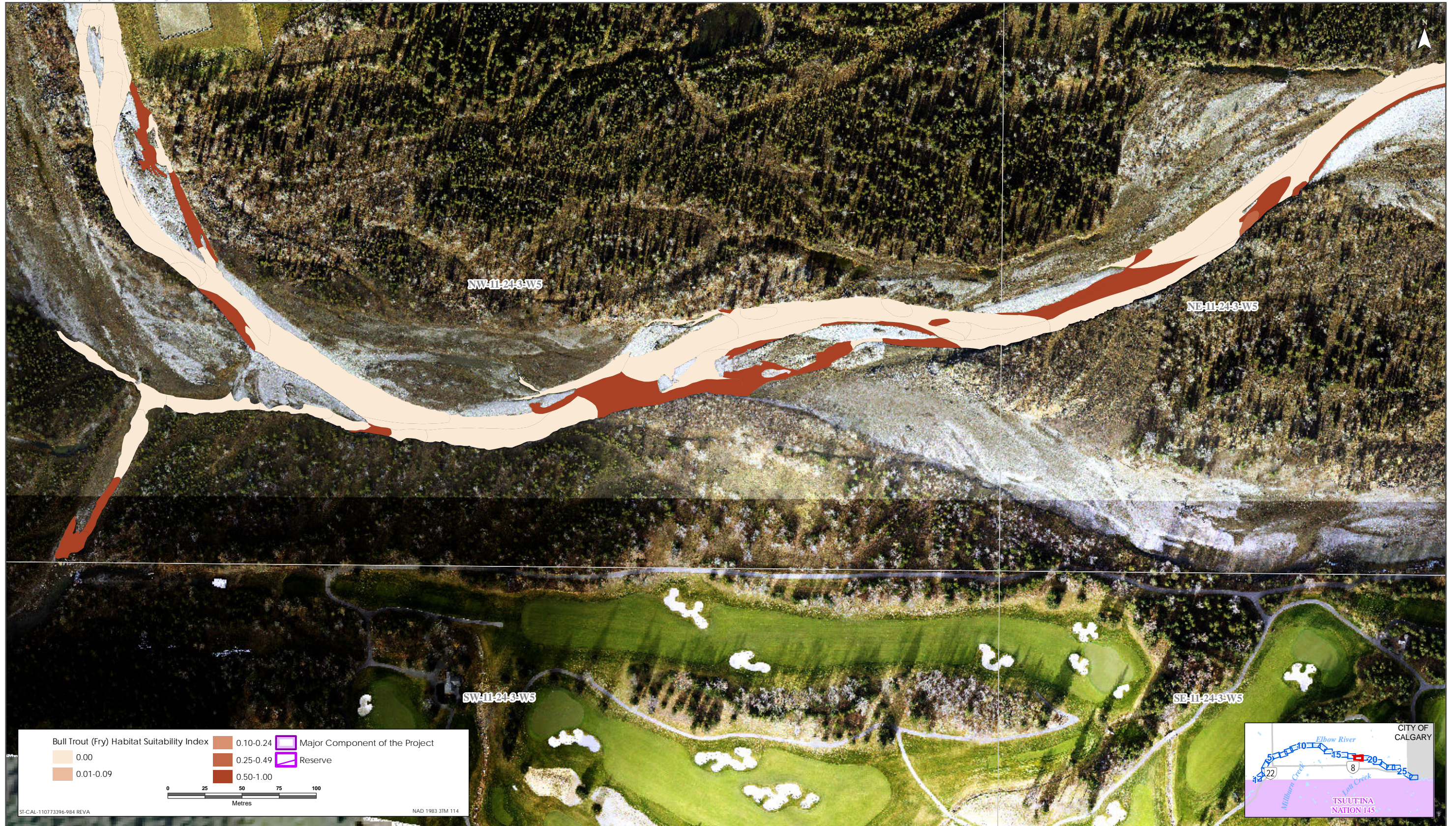
Bull Trout HSI Map for Elbow River (Fry Life Stage)





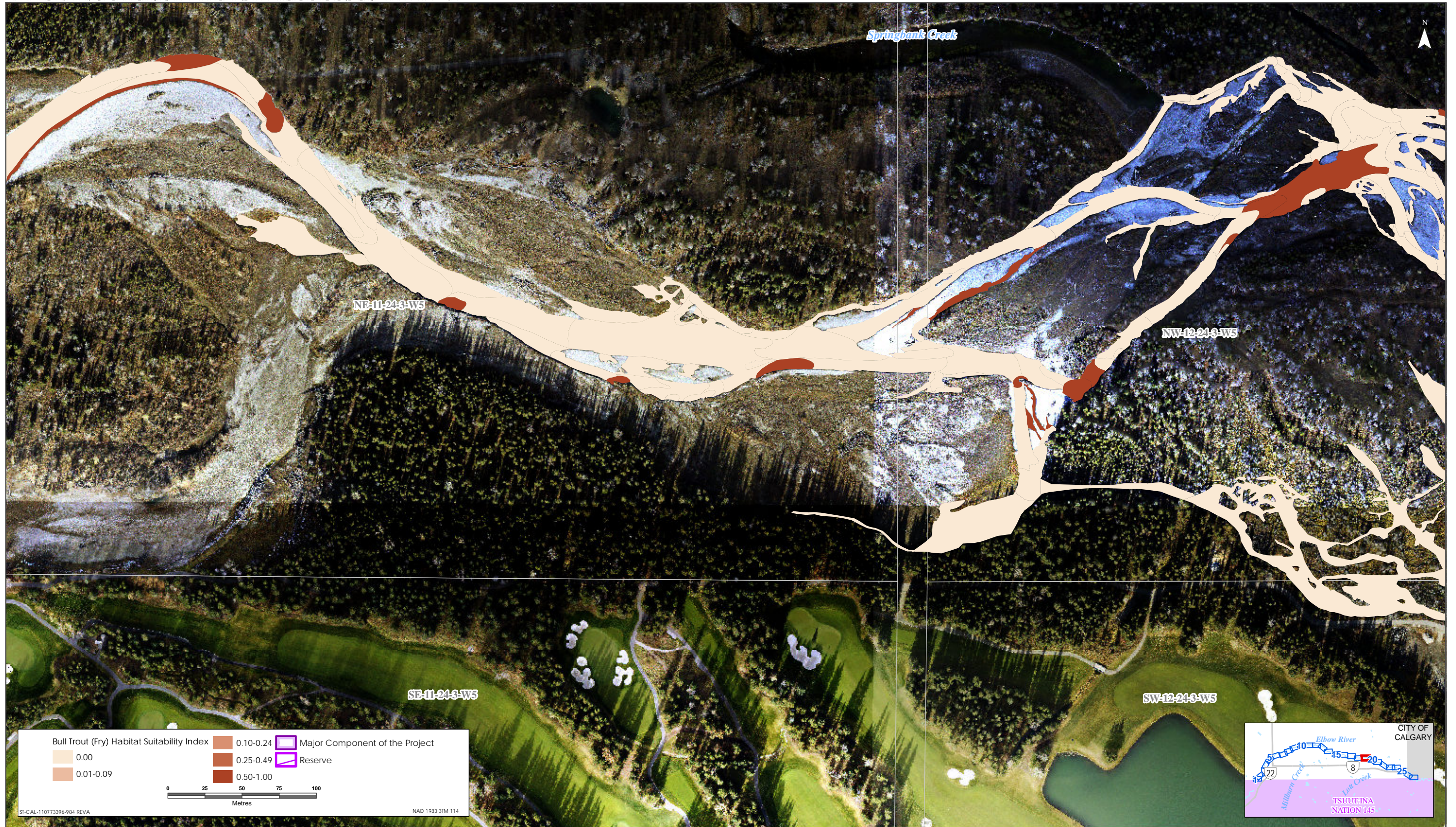
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



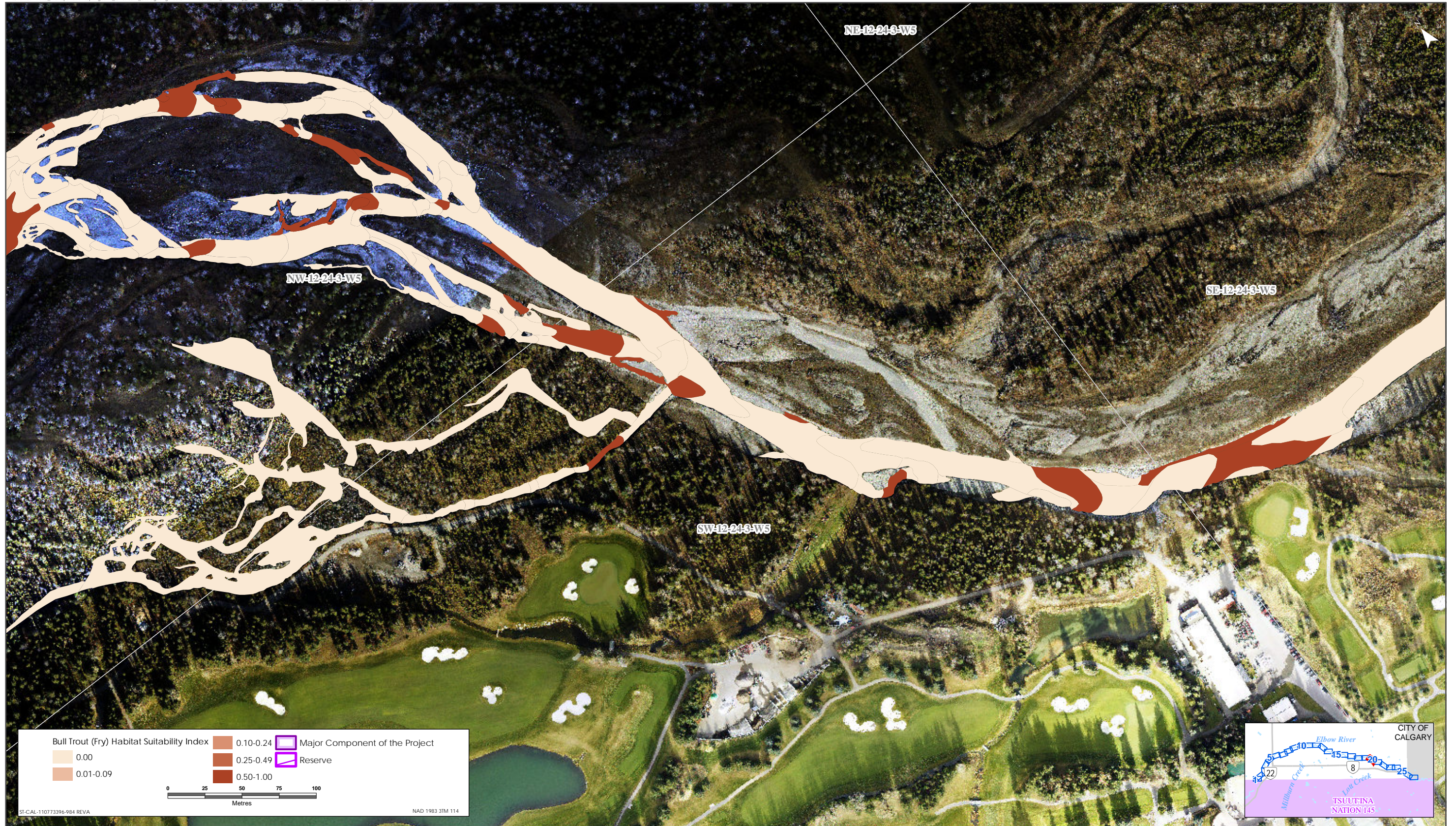
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



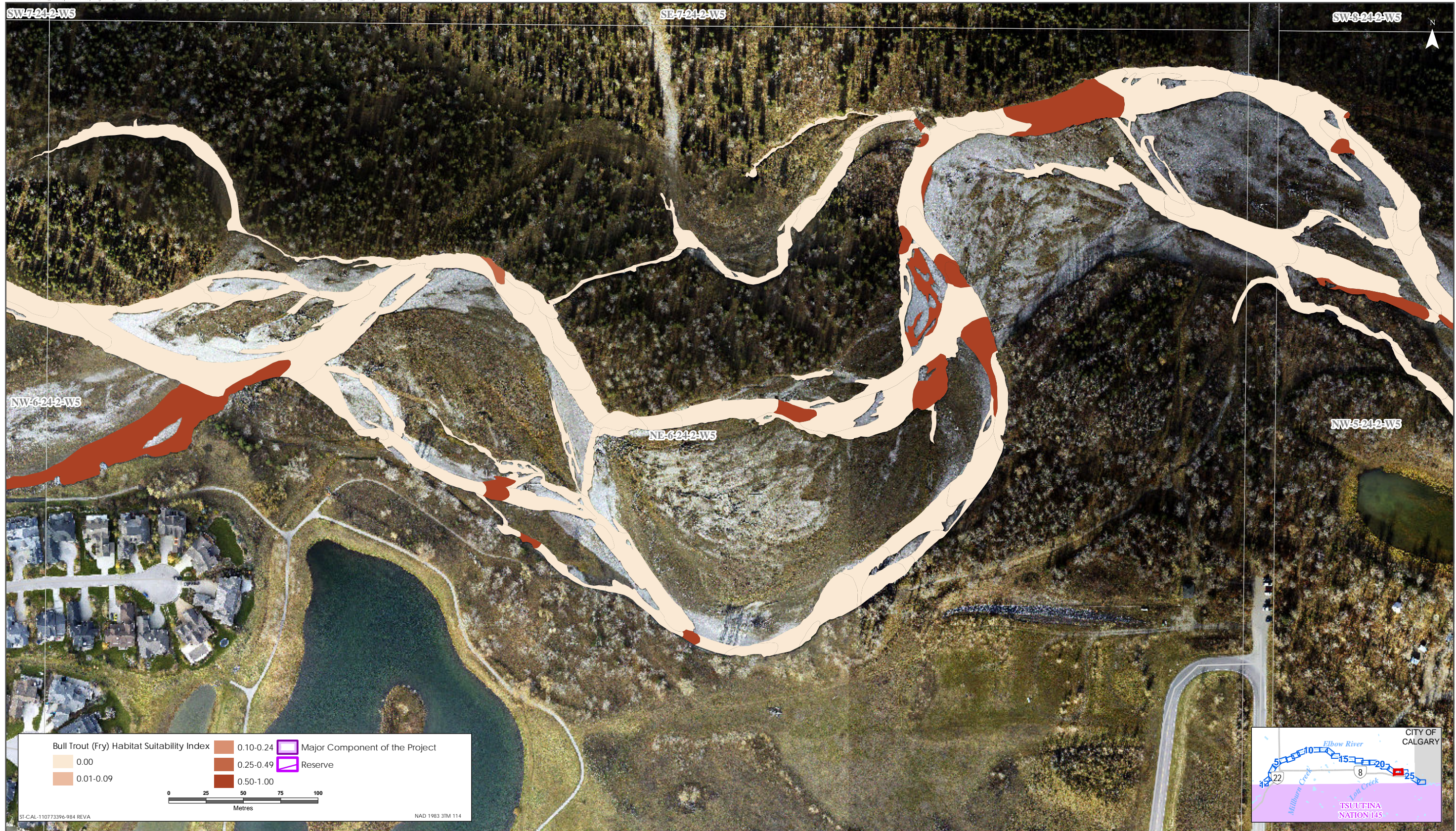
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)





Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)





Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Fry Life Stage)



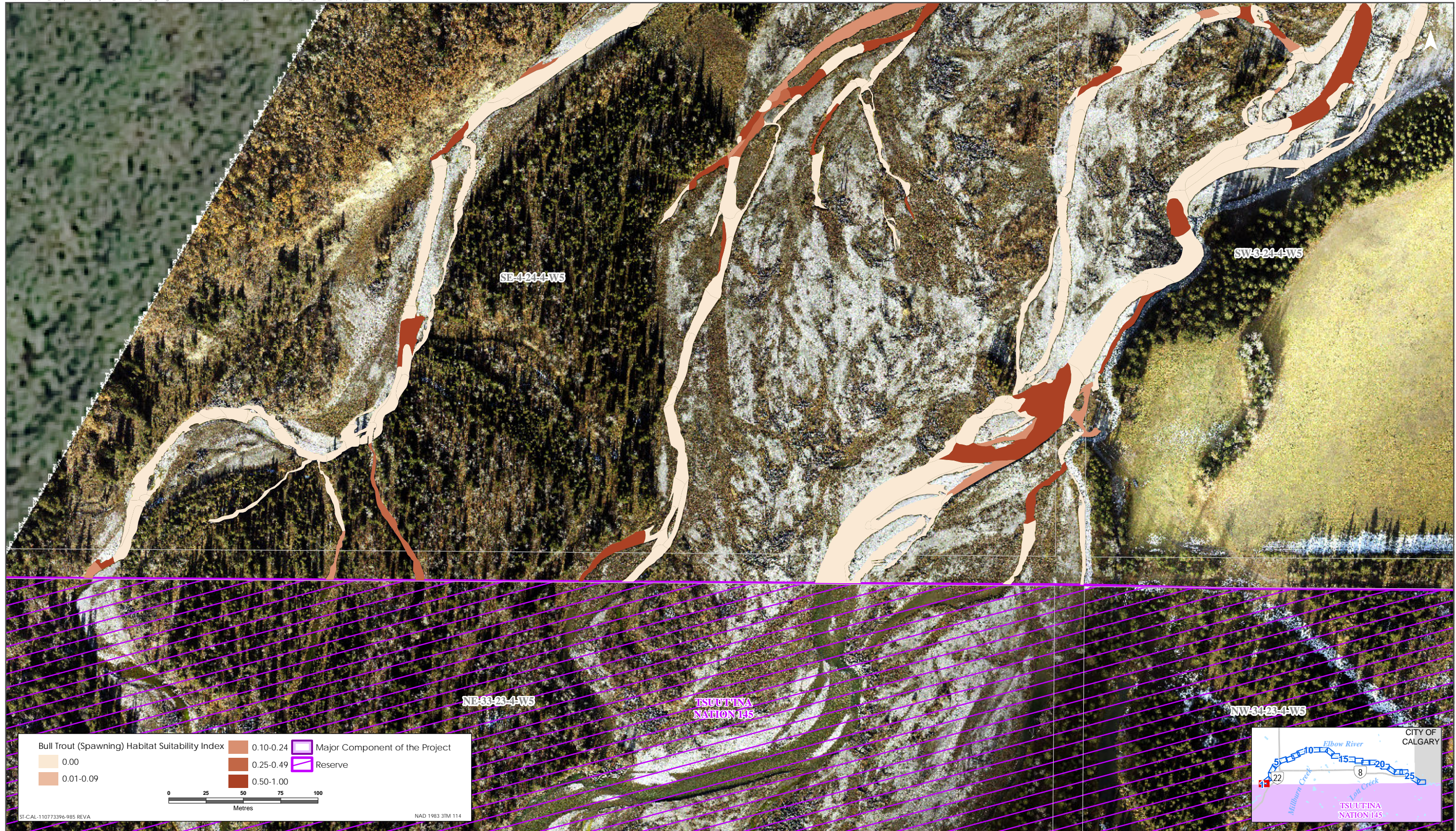
**SPRINGBANK OFF-STREAM RESERVOIR PROJECT  
ELBOW RIVER AQUATIC HABITAT ASSESSMENT: REDWOOD MEADOWS TO DISCOVERY RIDGE  
(FALL 2019) TECHNICAL DATA REPORT**

Attachment F Elbow River HSI Distribution Map Books for Bull Trout  
June 2020

**F.4 BULL TROUT HSI MAP FOR ELBOW RIVER (SPAWNING LIFE STAGE)**

**SPRINGBANK OFF-STREAM RESERVOIR PROJECT  
ELBOW RIVER AQUATIC HABITAT ASSESSMENT: REDWOOD MEADOWS TO DISCOVERY RIDGE  
(FALL 2019) TECHNICAL DATA REPORT**

Attachment F Elbow River HSI Distribution Map Books for Bull Trout  
June 2020



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

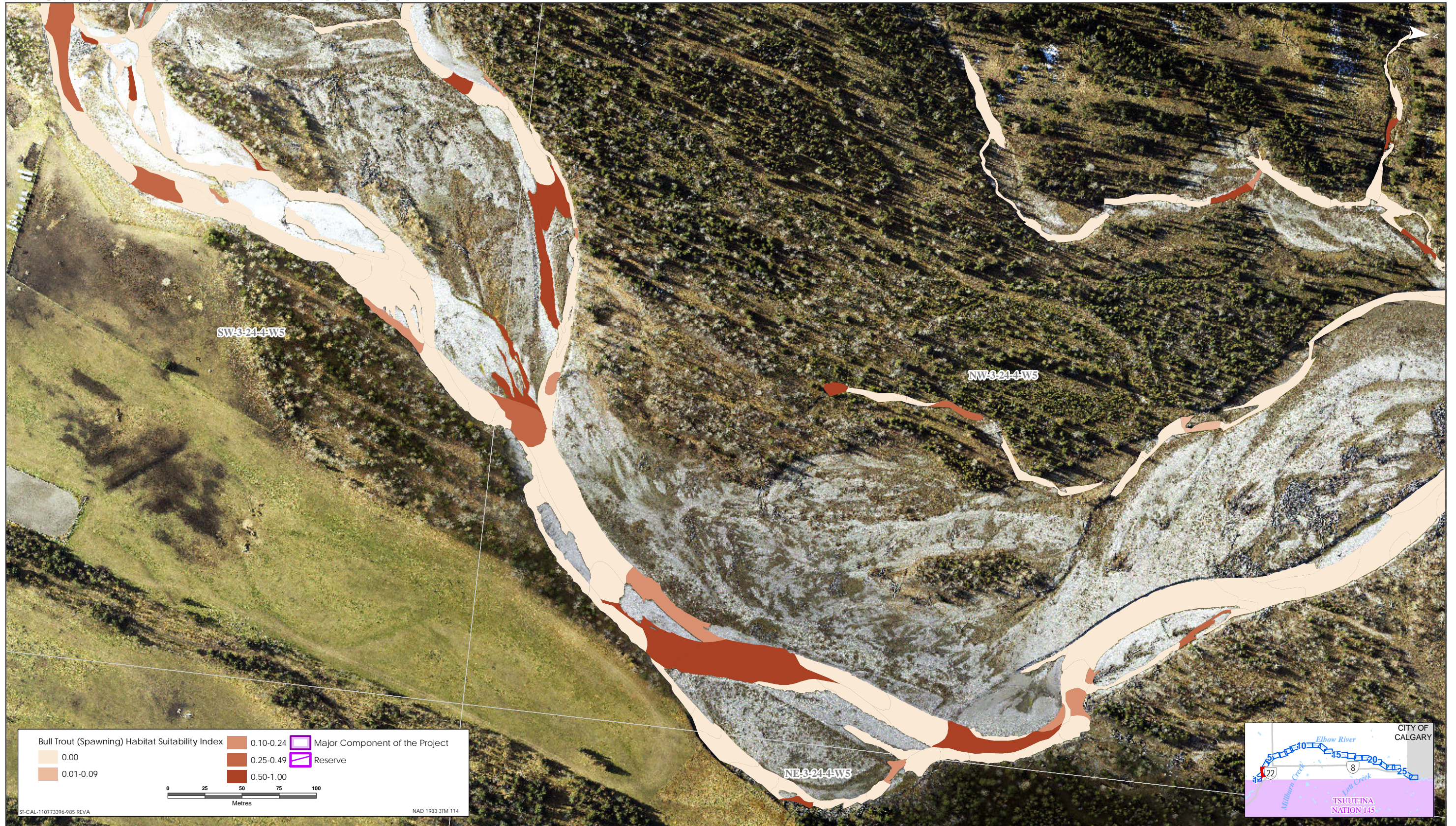
Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:10cm resolution October 2019

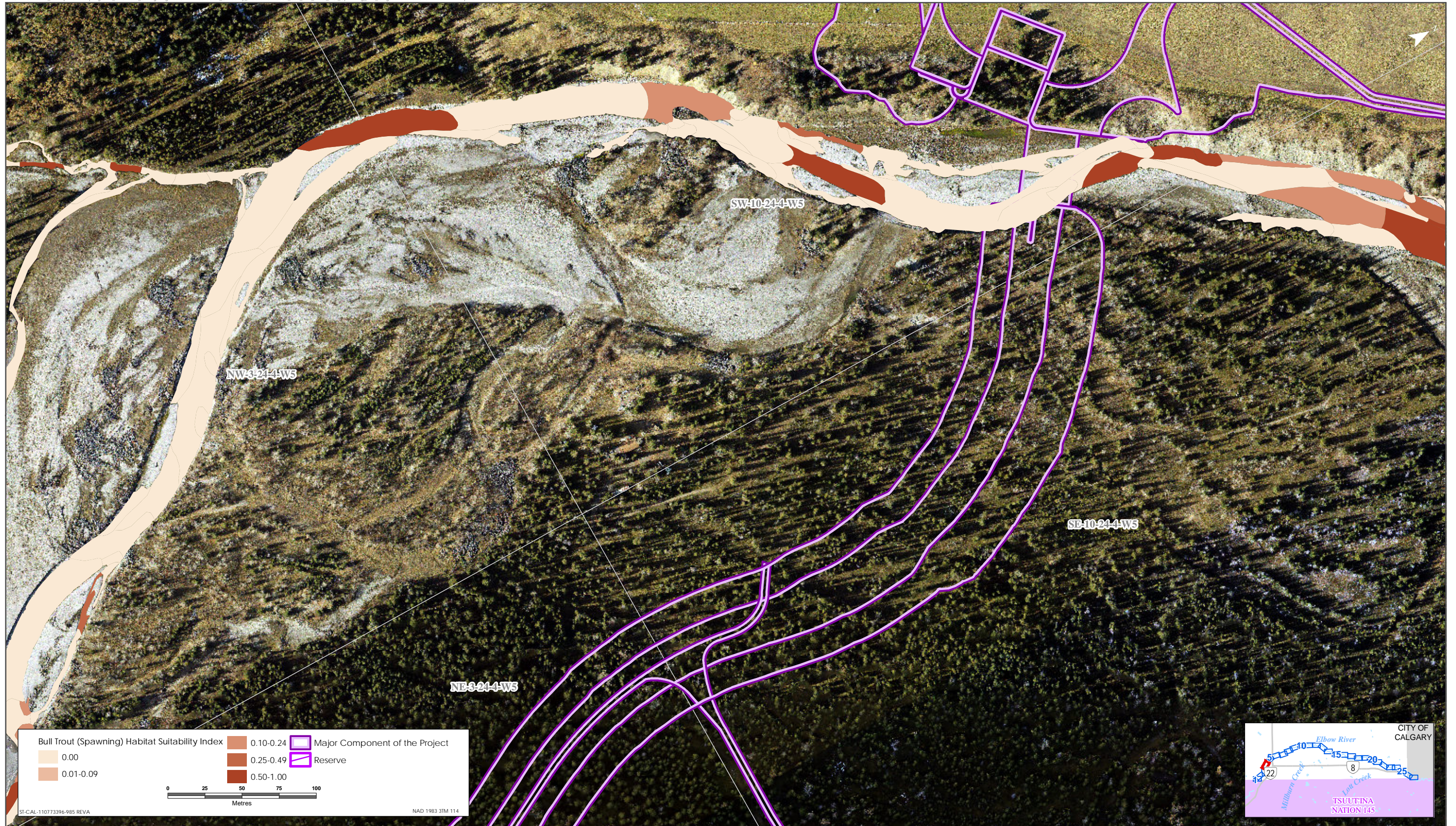
Bull Trout HSI Map for Elbow River (Spawning Life Stage)





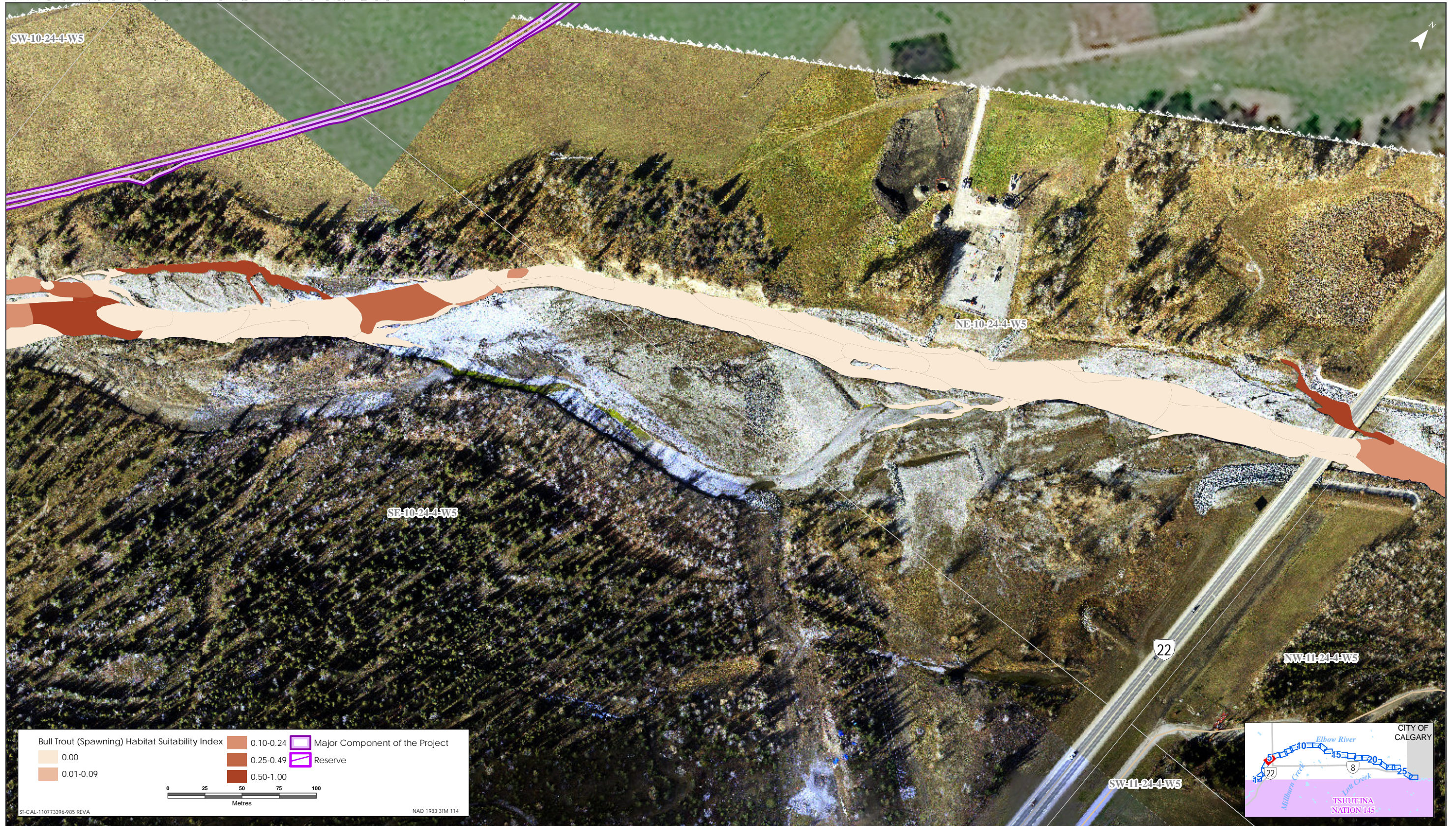
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

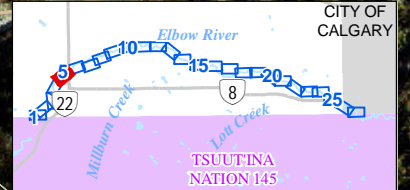
Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Bull Trout (Spawning) Habitat Suitability Index		0.10-0.24	Major Component of the Project
0.00	0.25-0.49	0.50-1.00	Reserve
0.01-0.09			

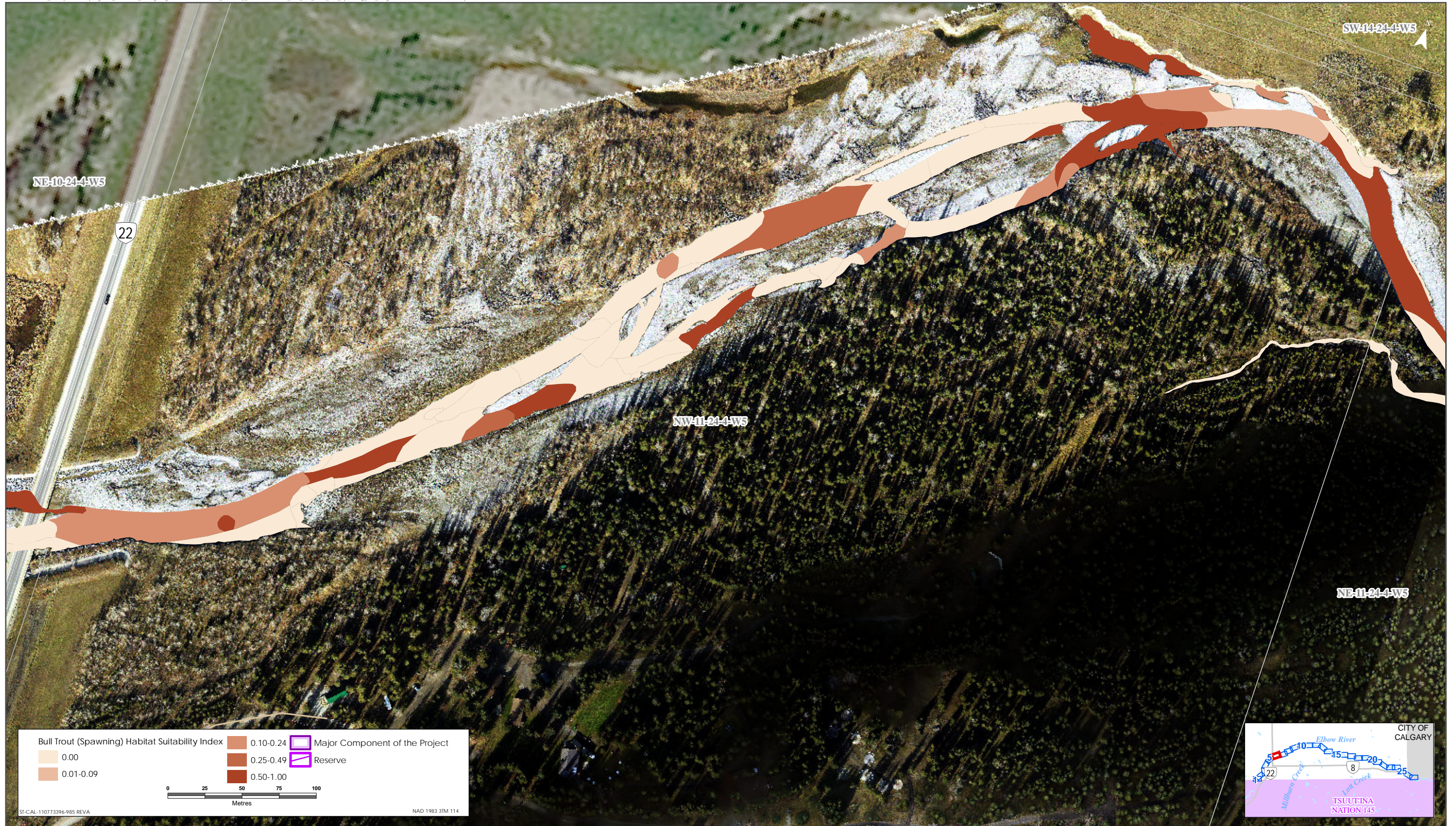
0 25 50 75 100 Metres

ST-CAL-110773396-985 REVA NAD 1983 31M 114



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



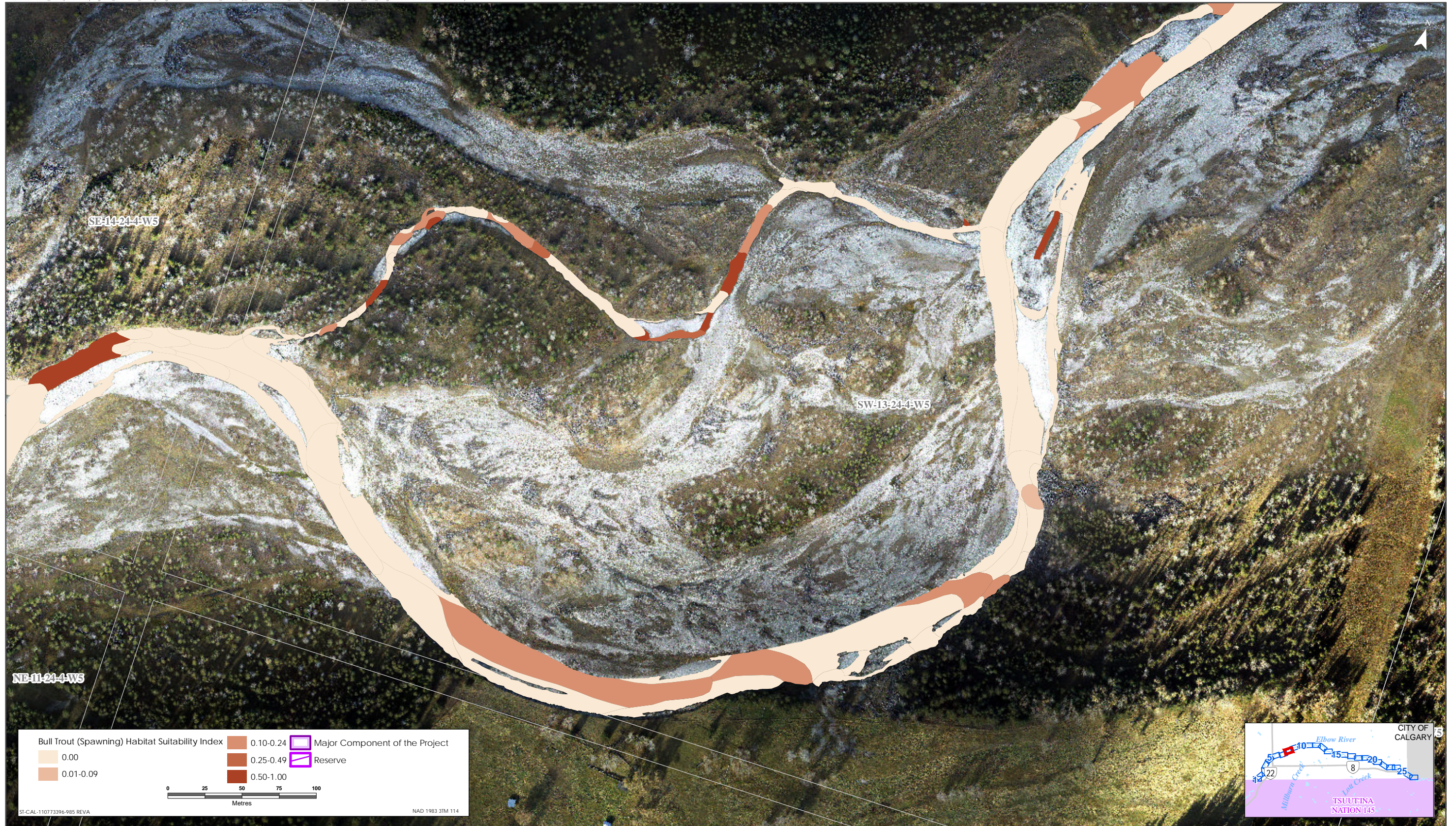
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



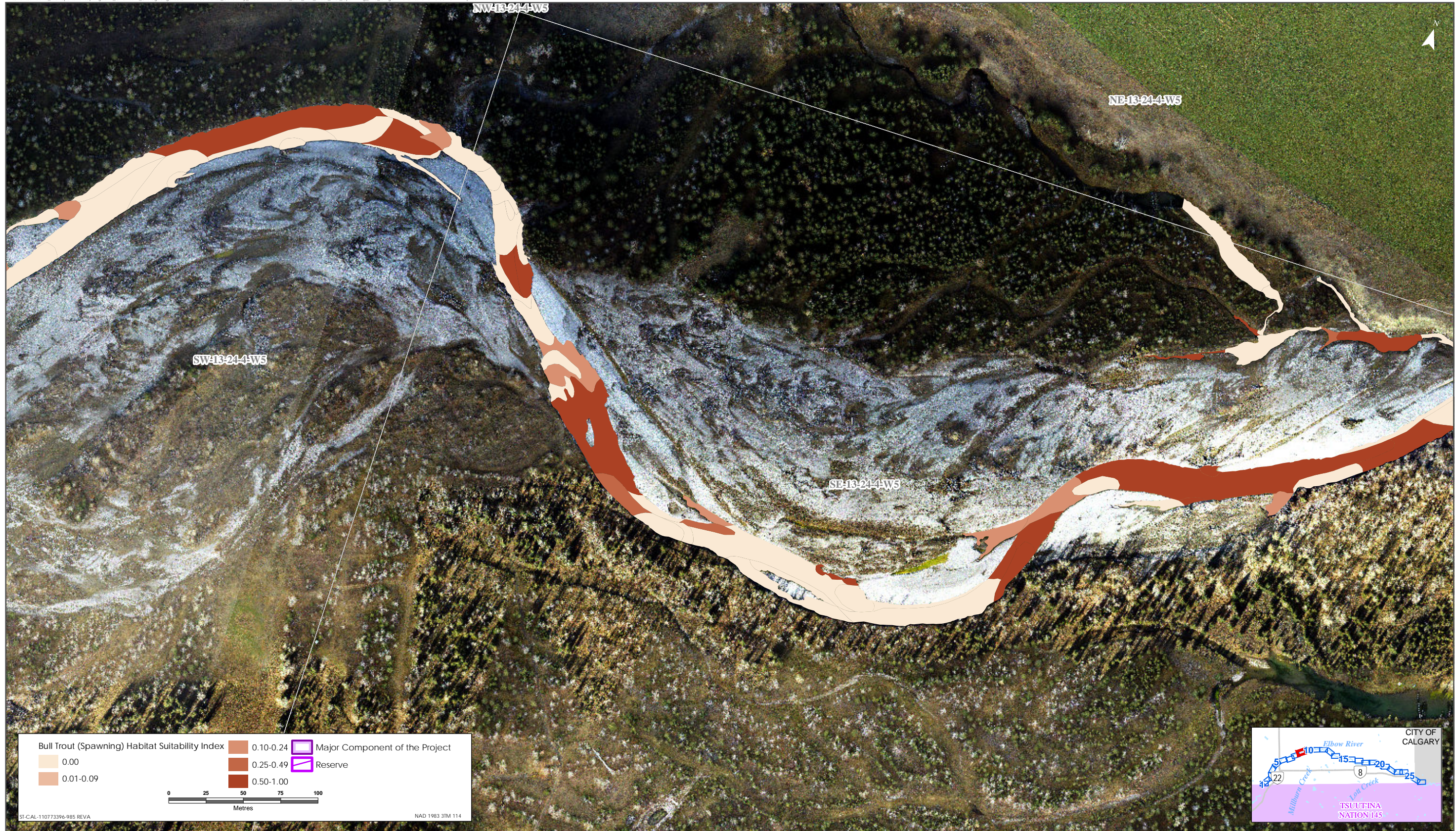
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



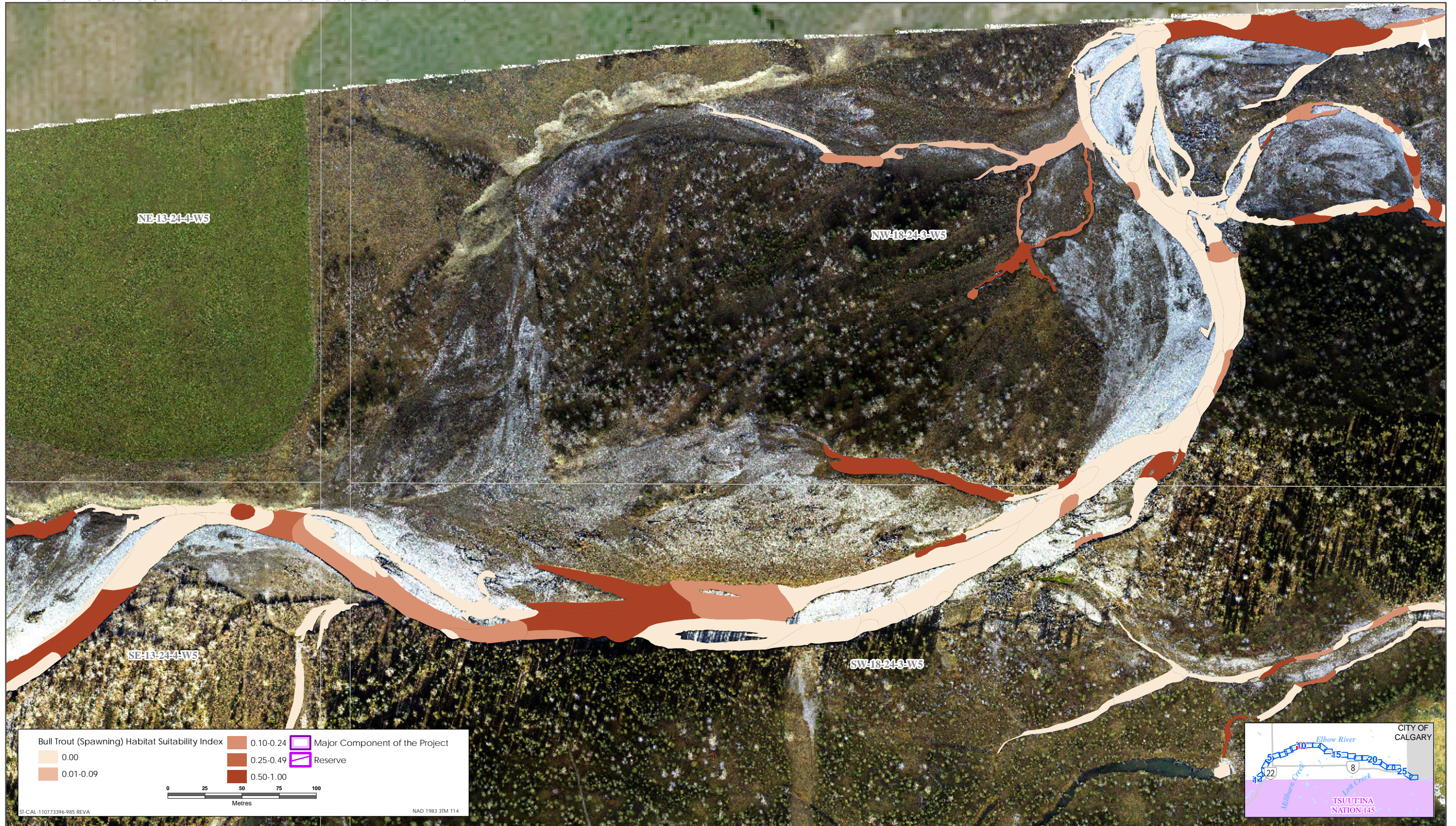
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
 Imagery: 1:4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

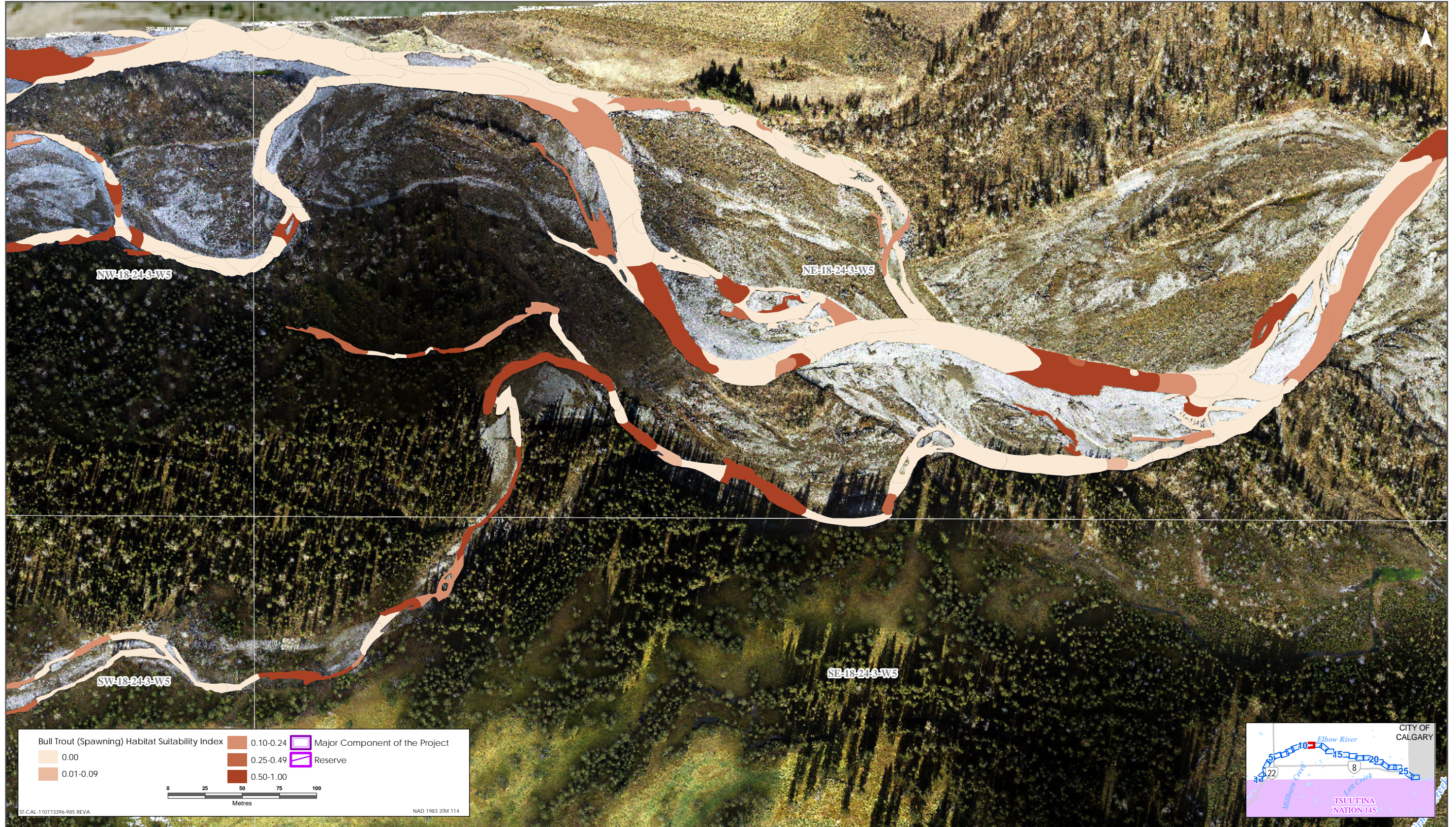
Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

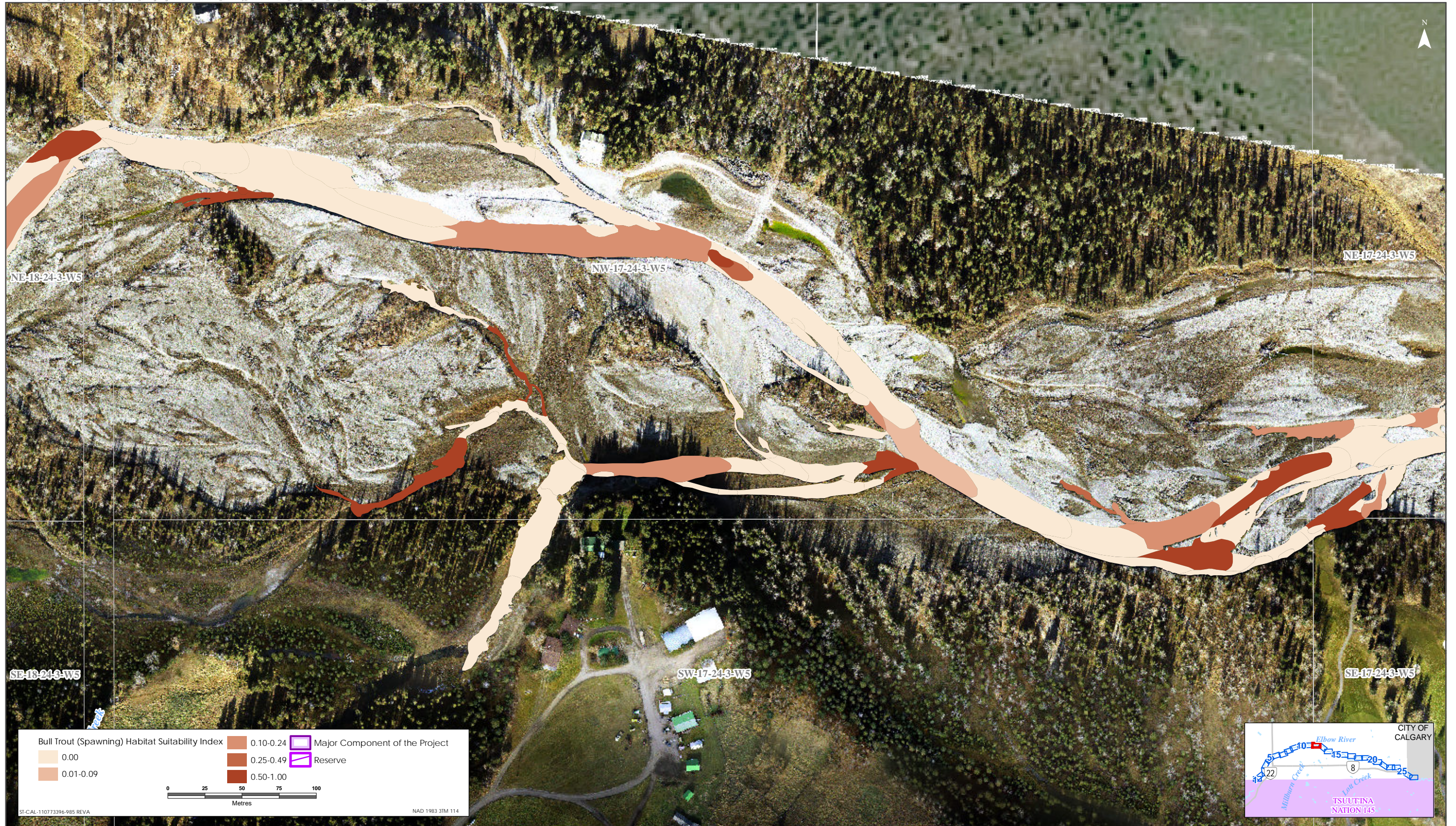
Bull Trout HSI Map for Elbow River (Spawning Life Stage)





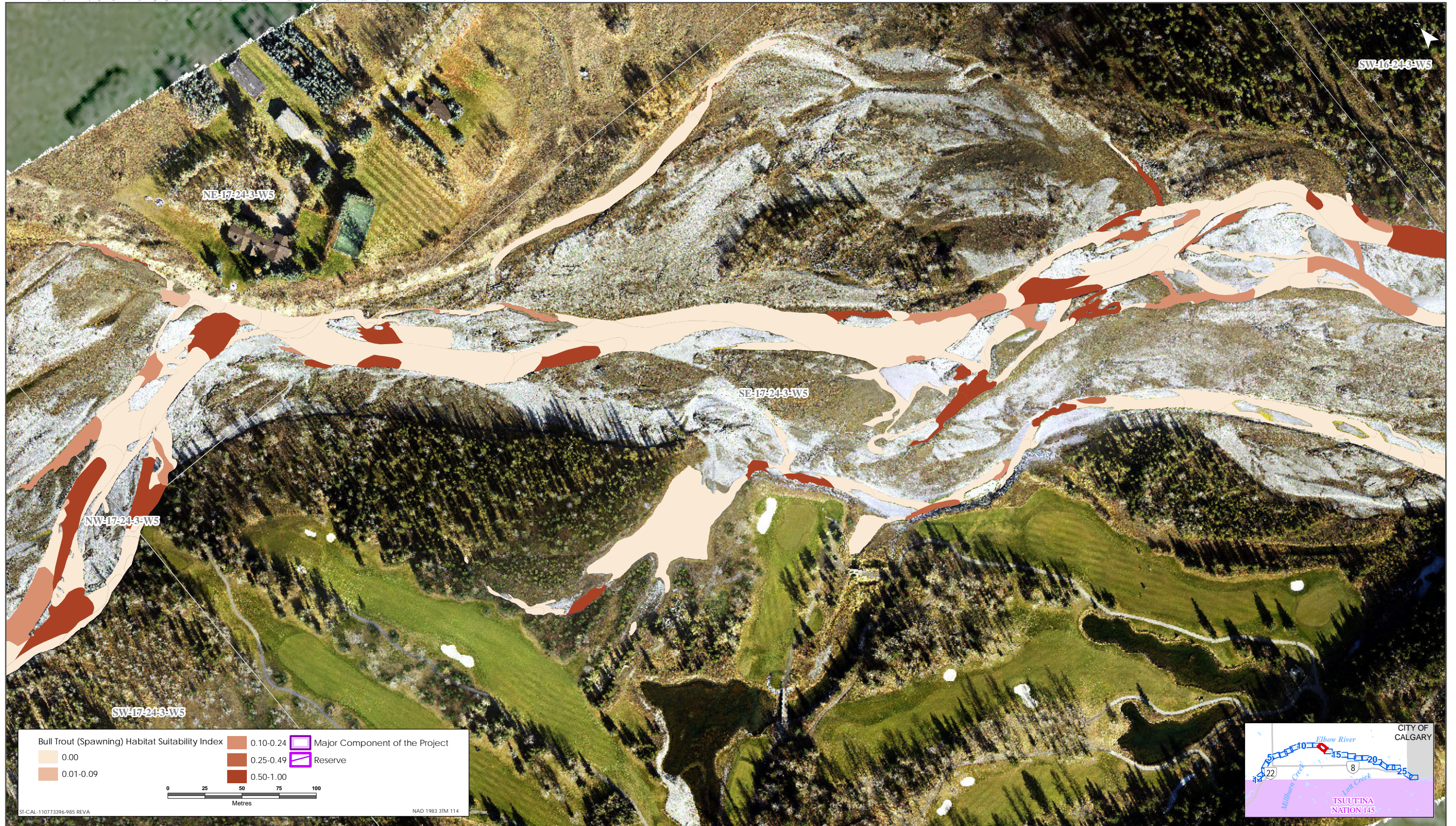
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



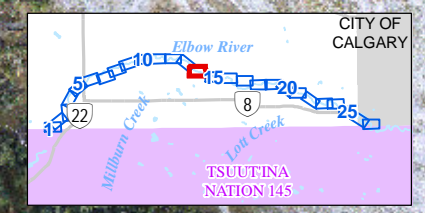
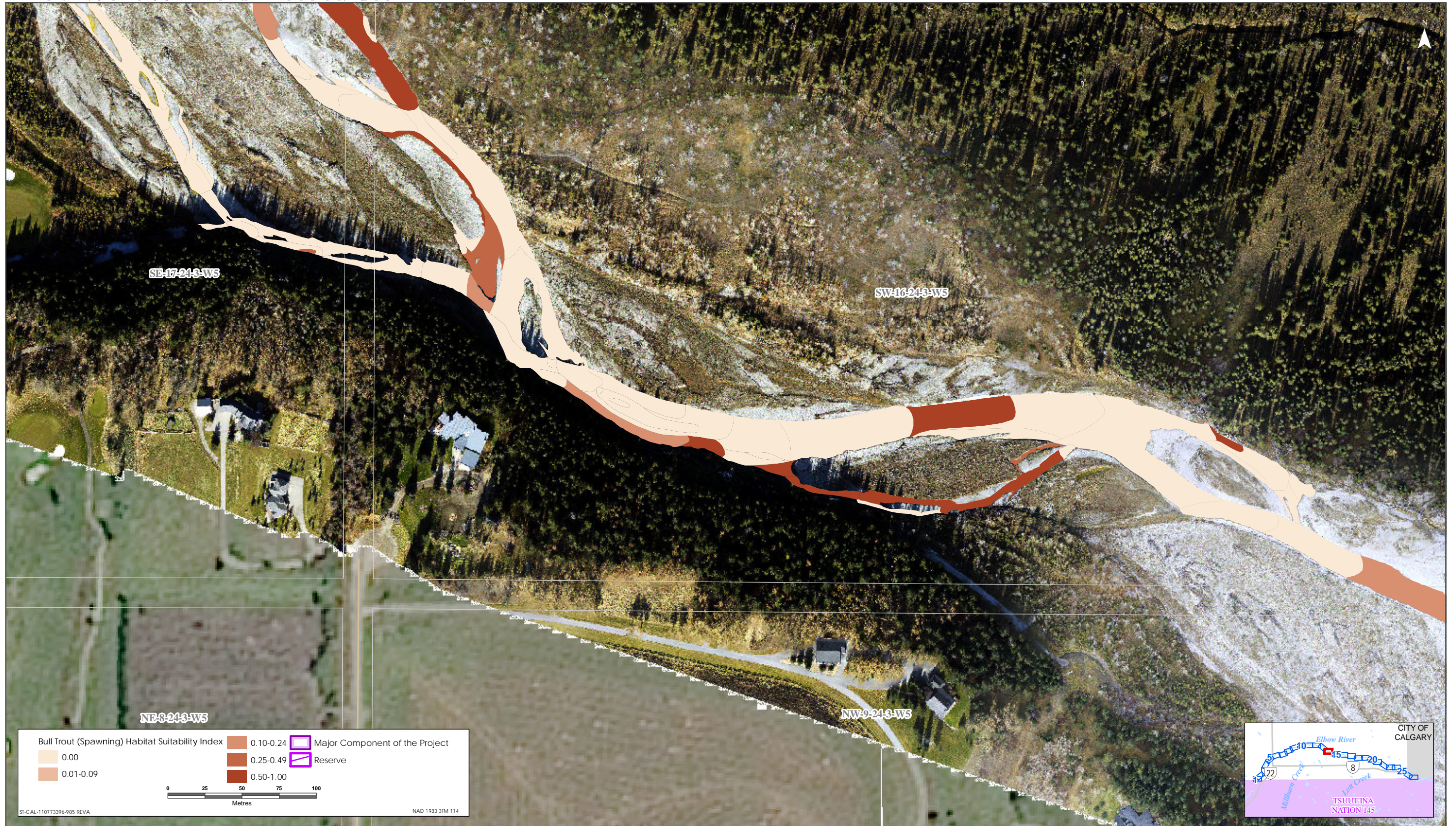
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



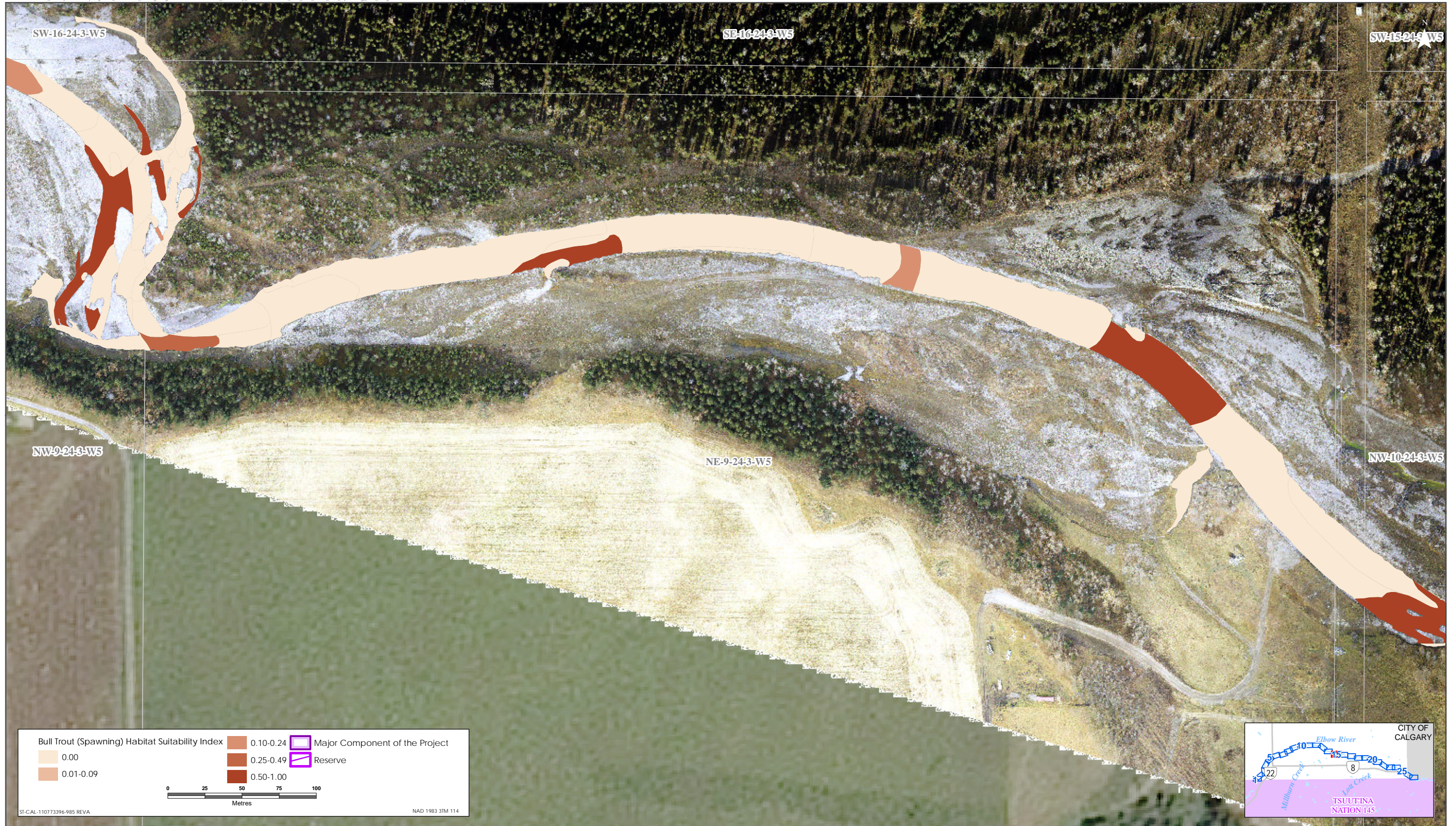
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



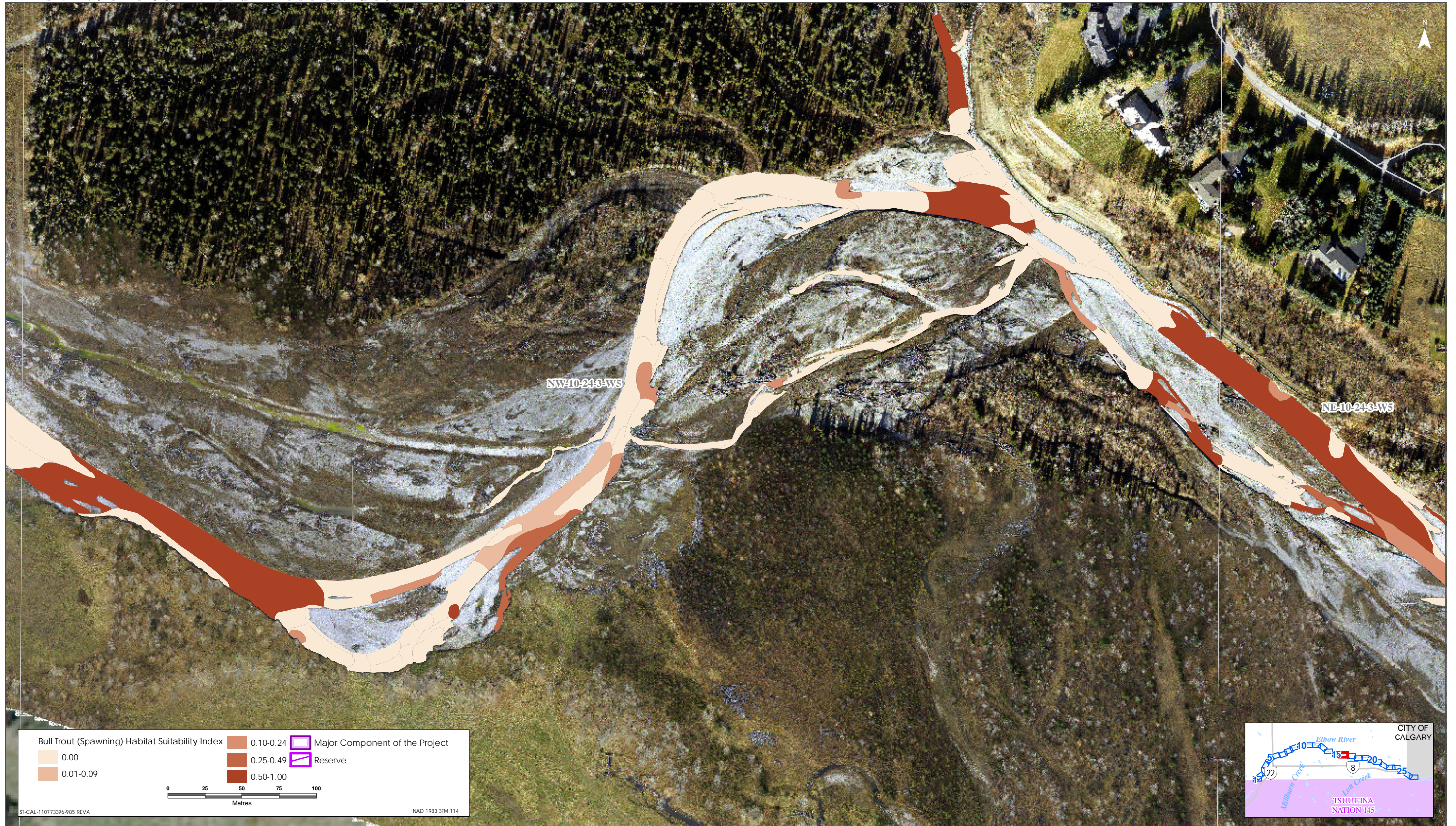
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
 Imagery: 1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

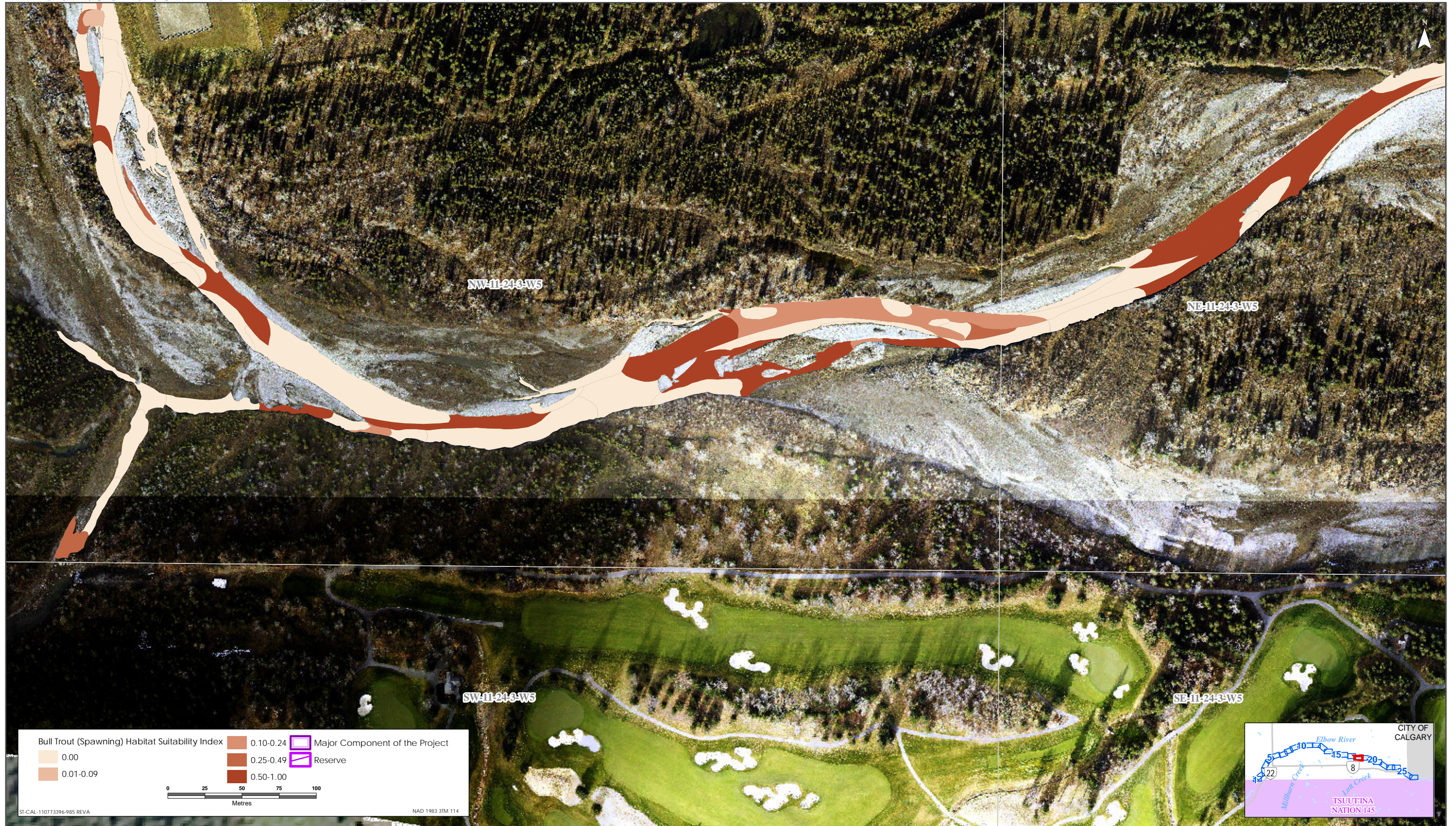
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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.  
 Imagery: 1m 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)

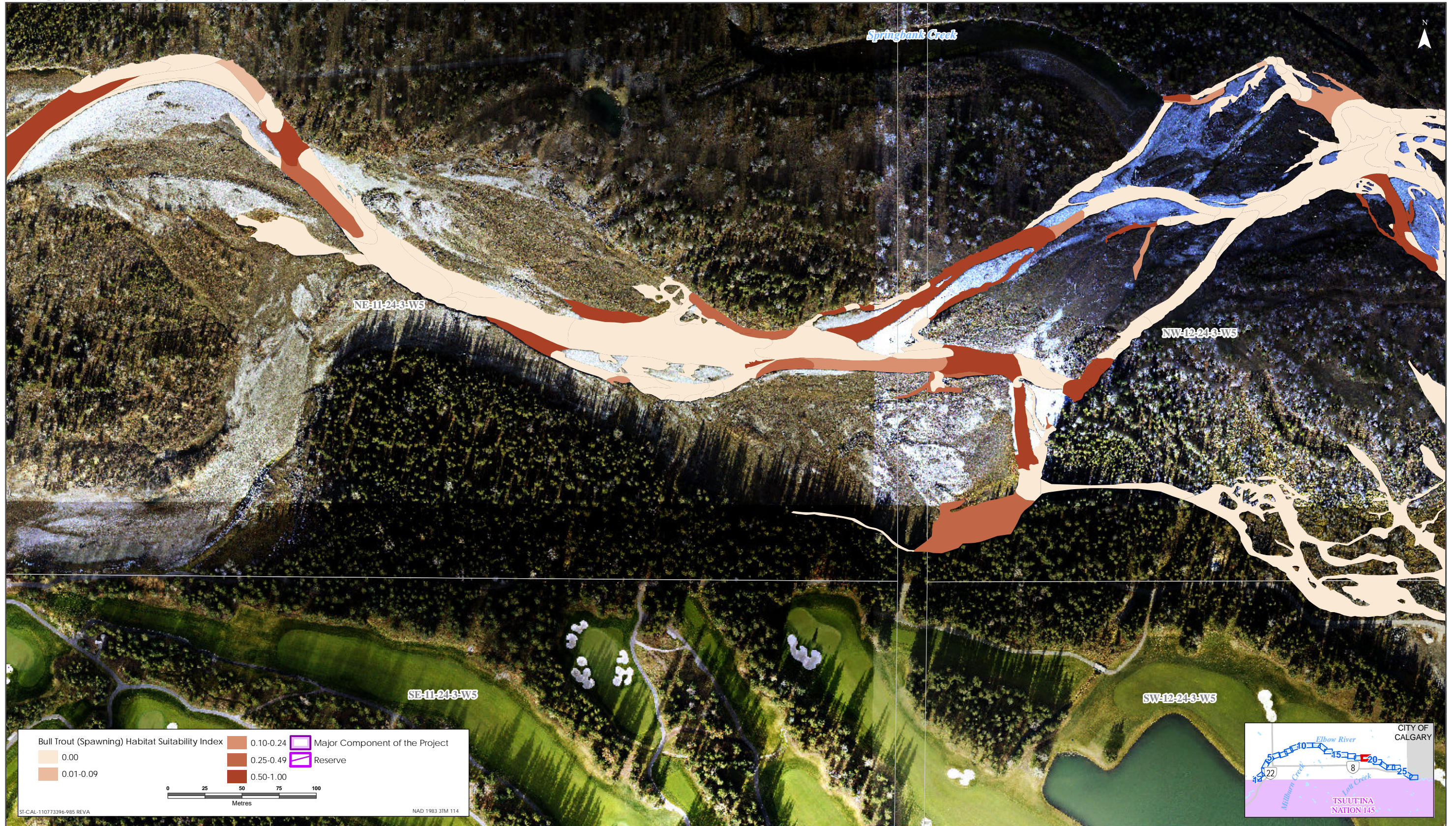




Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

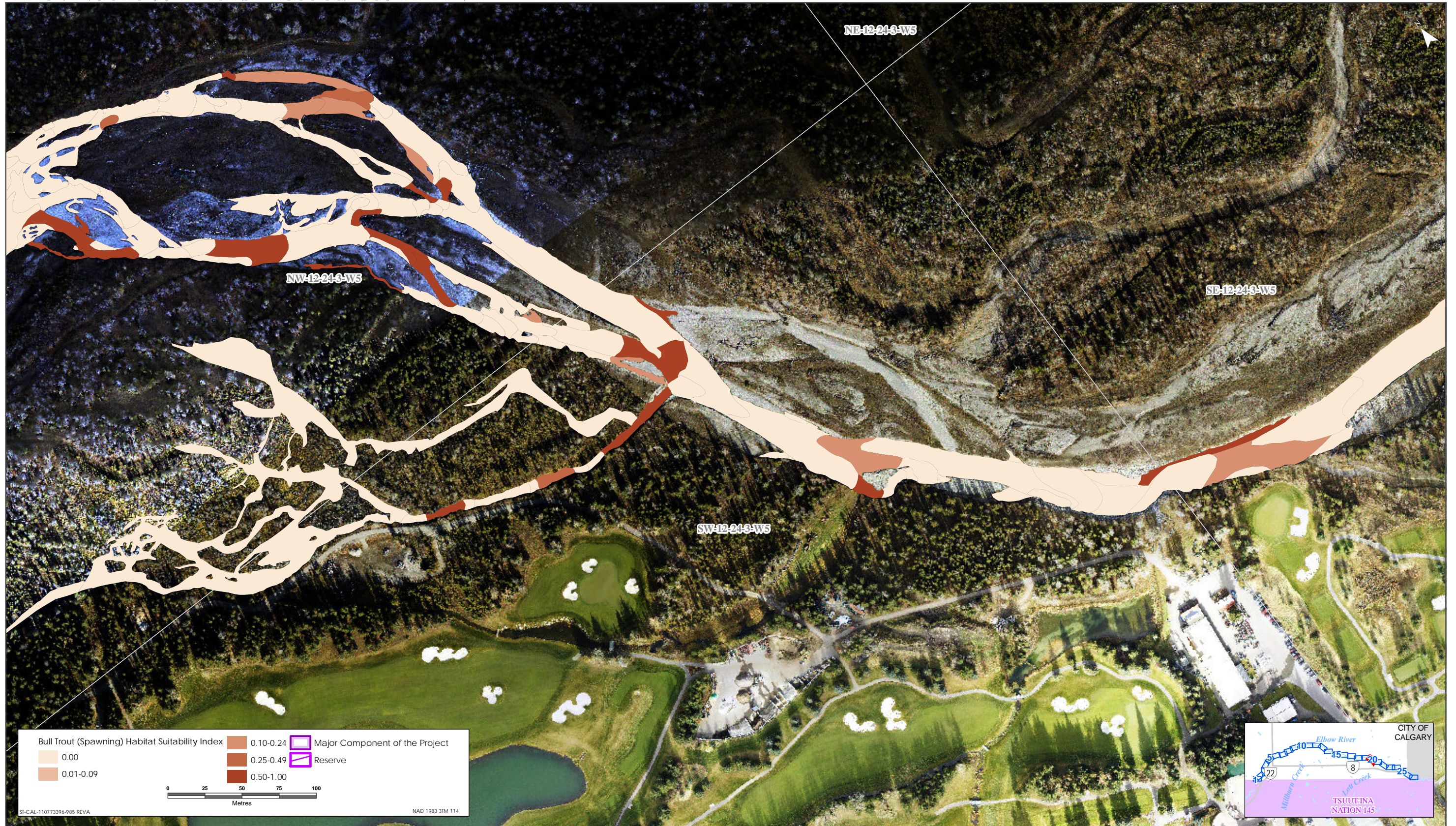
Bull Trout HSI Map for Elbow River (Spawning Life Stage)





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Bull Trout HSI Map for Elbow River (Spawning Life Stage)



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Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019

Bull Trout HSI Map for Elbow River (Spawning Life Stage)



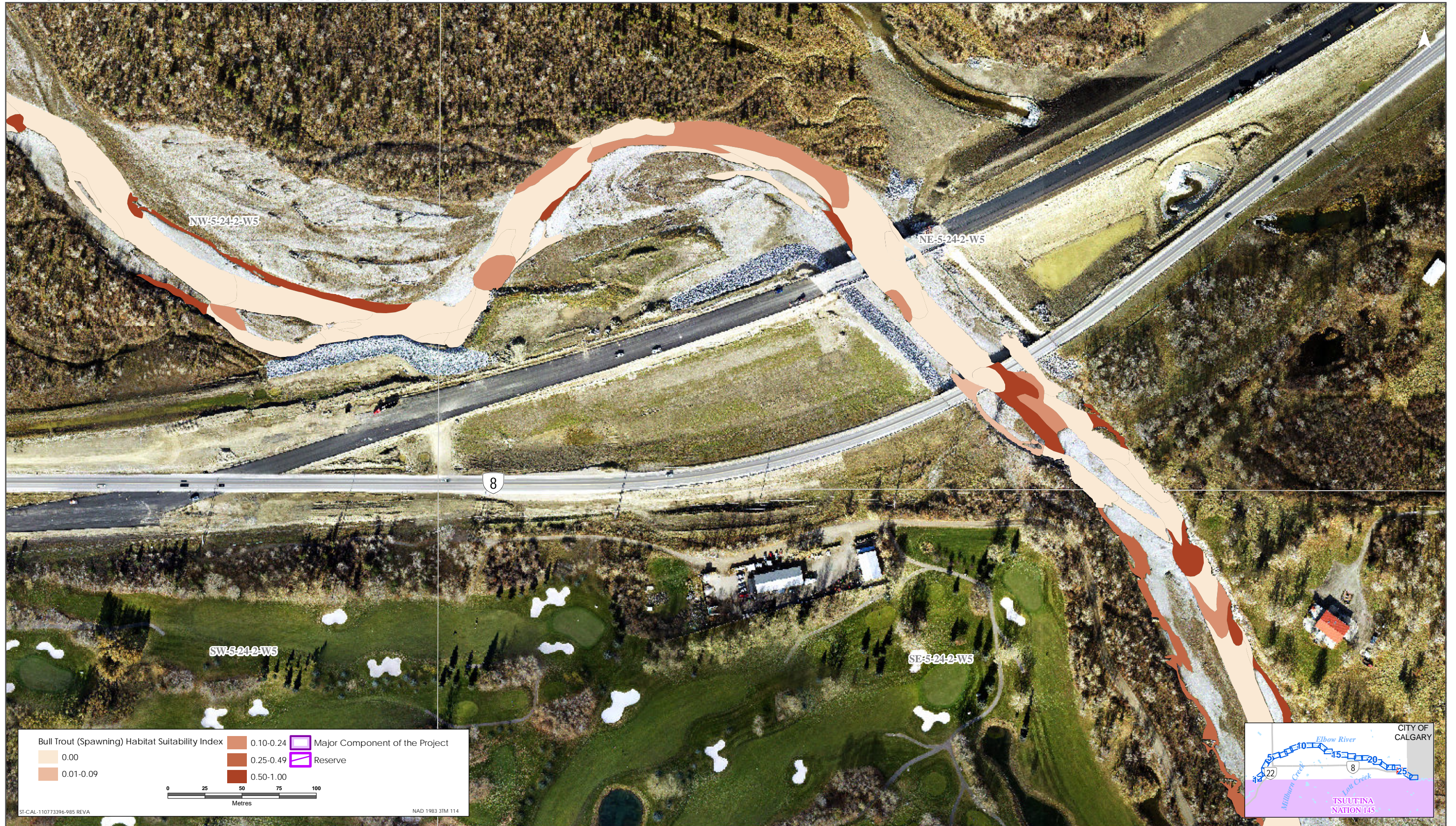
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

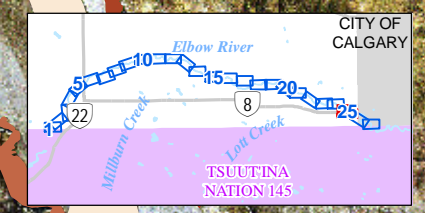
Bull Trout HSI Map for Elbow River (Spawning Life Stage)



Bull Trout (Spawning) Habitat Suitability Index		0.10-0.24	Major Component of the Project
0.00	0.25-0.49	0.50-1.00	Reserve
0.01-0.09			

0 25 50 75 100 Metres

ST-CAL-110773396-985 REVA NAD 1983 31M 114



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Bull Trout HSI Map for Elbow River (Spawning Life Stage)

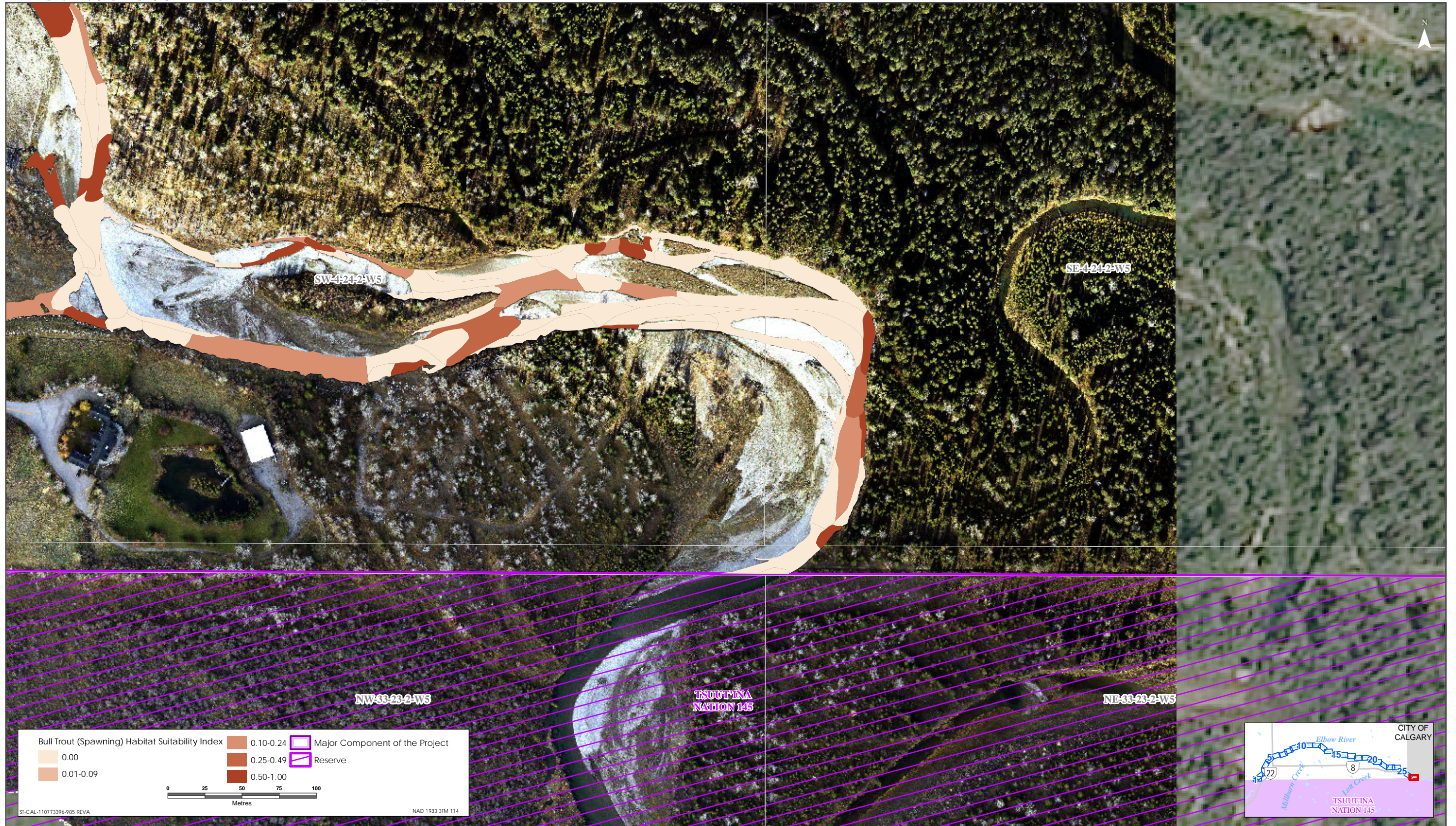


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