

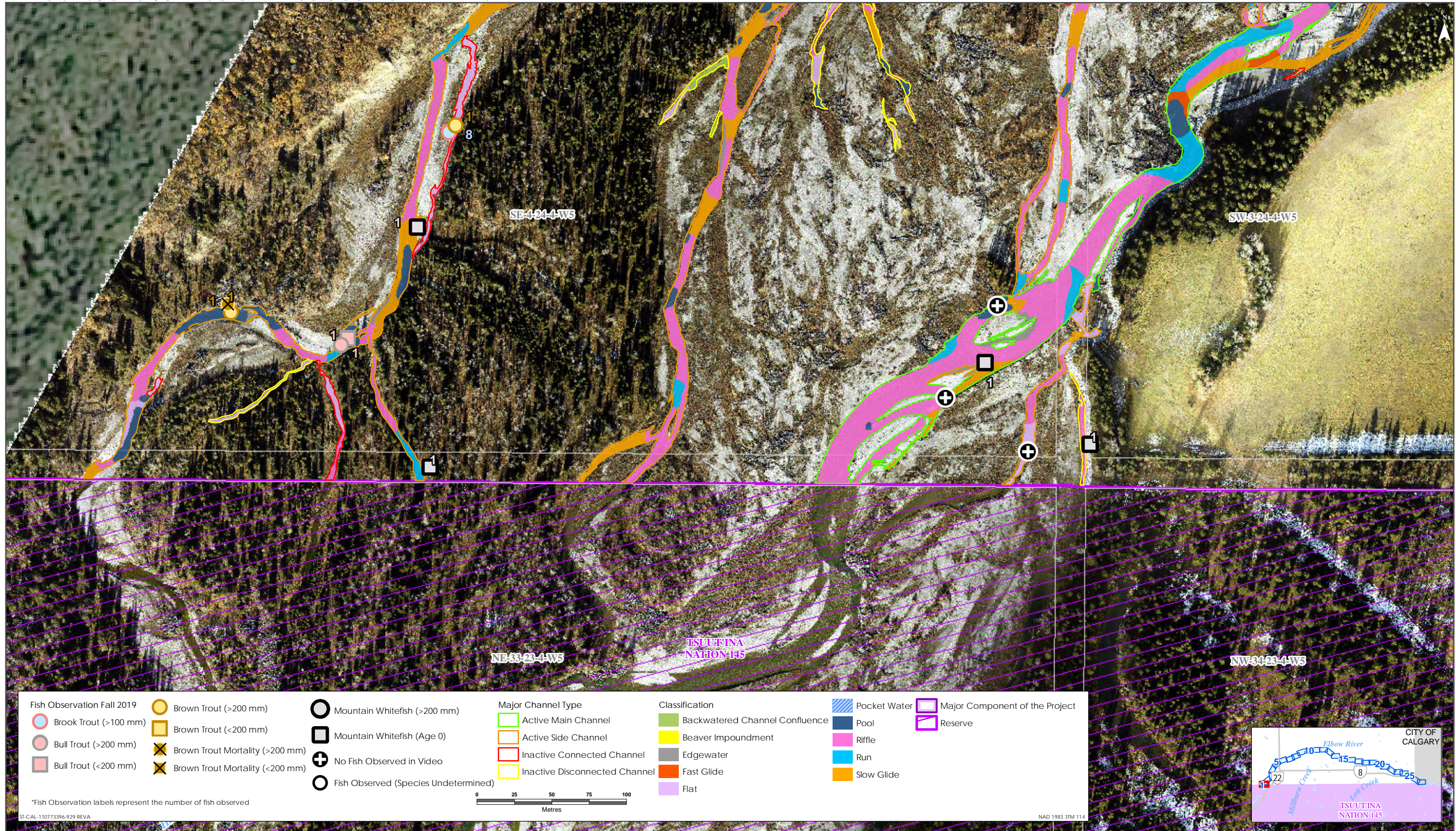
**SPRINGBANK OFF-STREAM RESERVOIR PROJECT
ELBOW RIVER AQUATIC HABITAT ASSESSMENT: REDWOOD MEADOWS TO DISCOVERY RIDGE
(FALL 2019) TECHNICAL DATA REPORT**

Attachment D Elbow River Fish Observations (Fall 2019)
June 2020

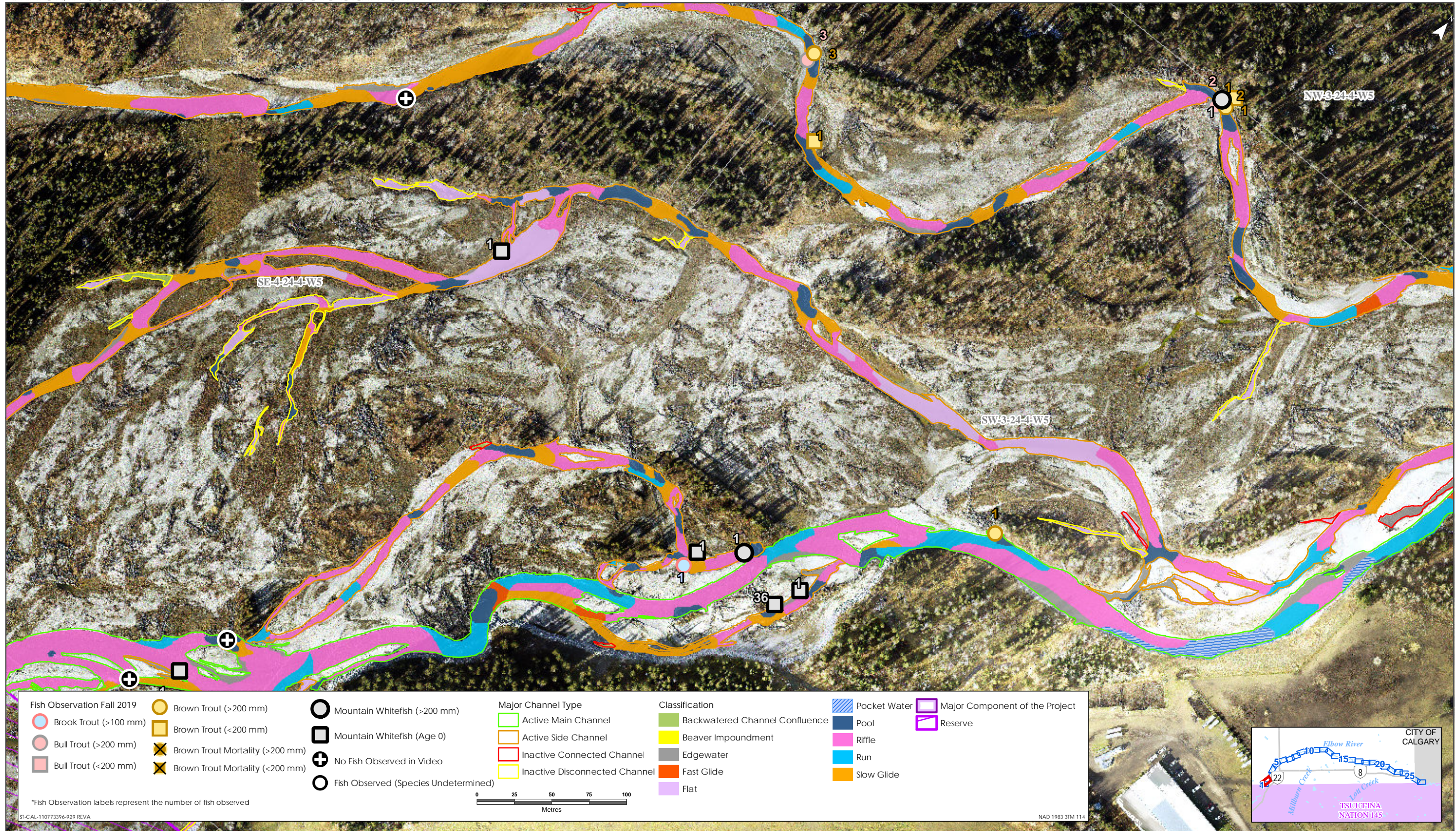
**Attachment D ELBOW RIVER FISH OBSERVATIONS (FALL
2019)**

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

Attachment D Elbow River Fish Observations (Fall 2019)
June 2020

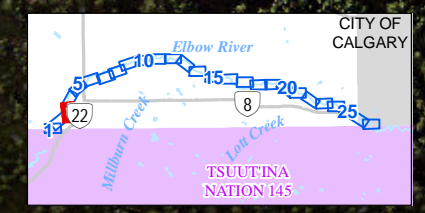
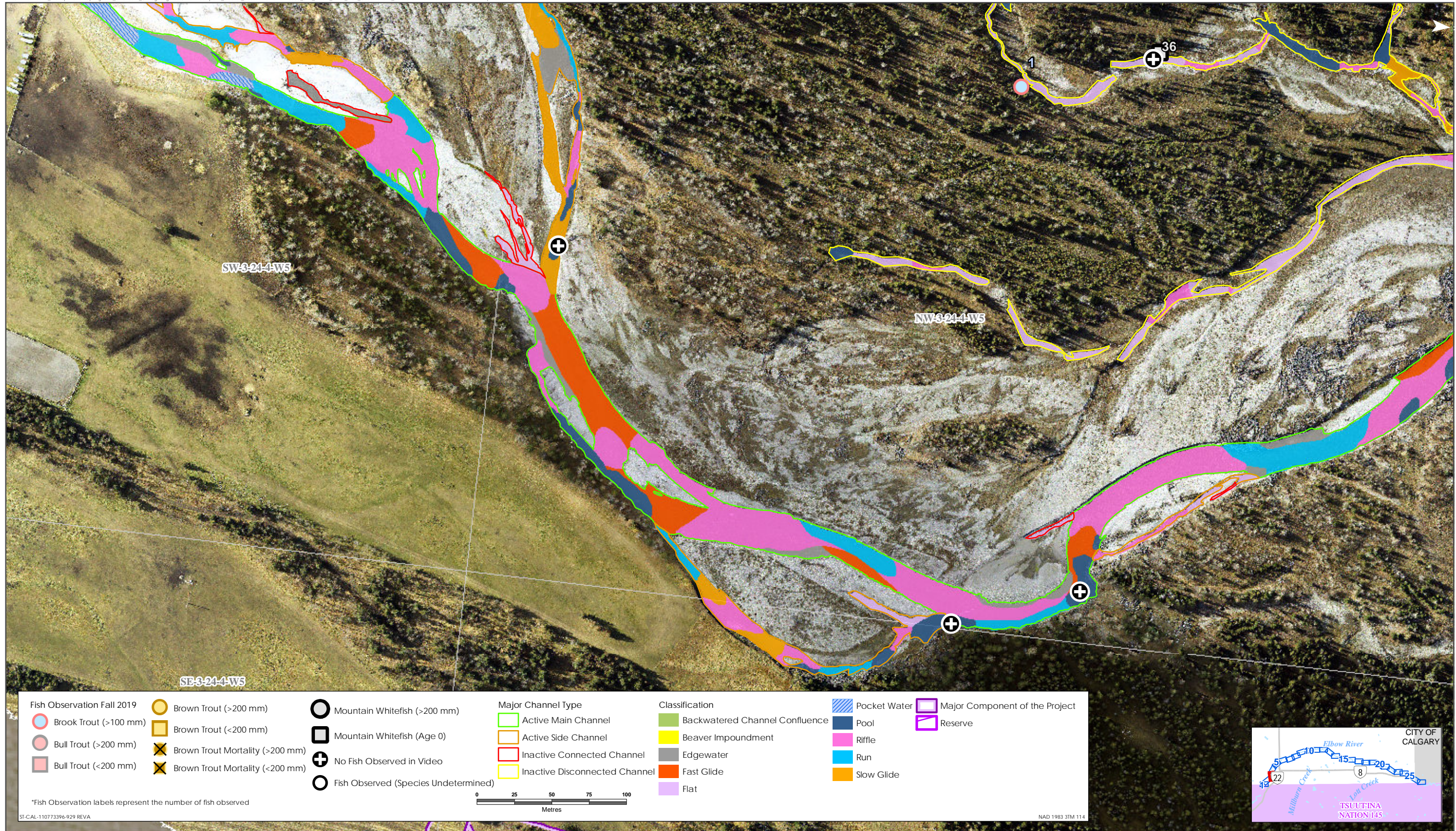


Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

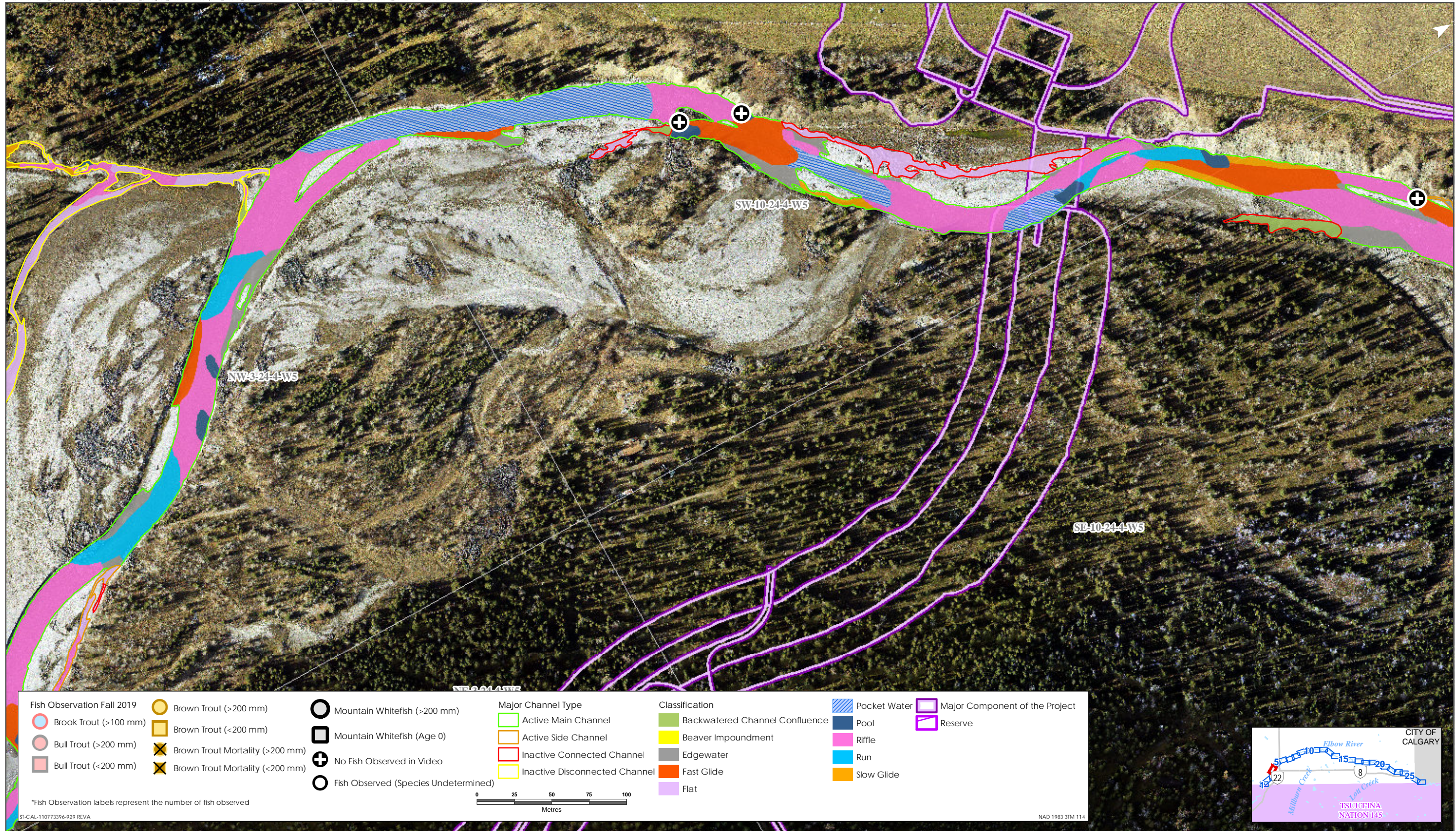


Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019



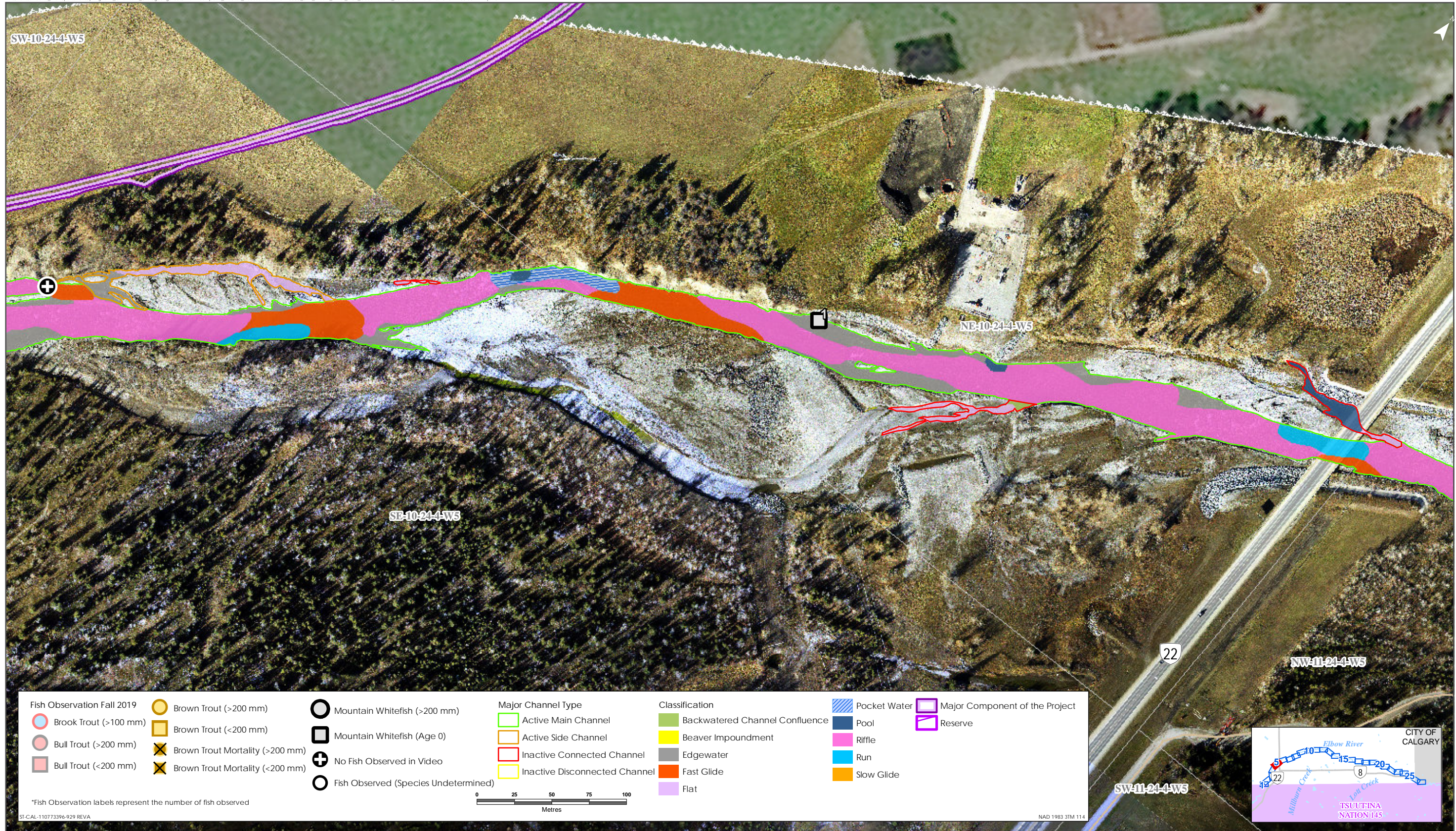


Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

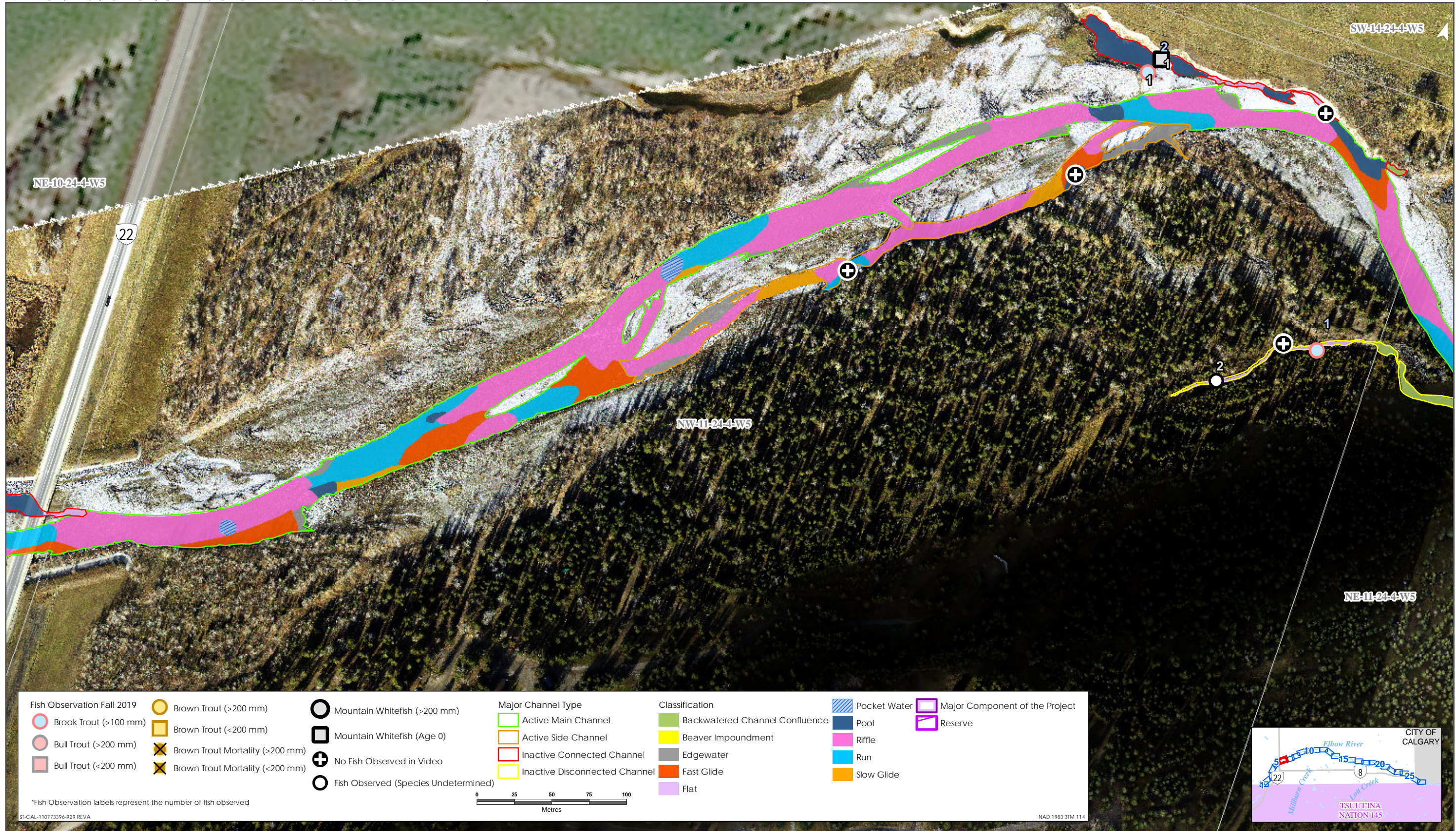


Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019

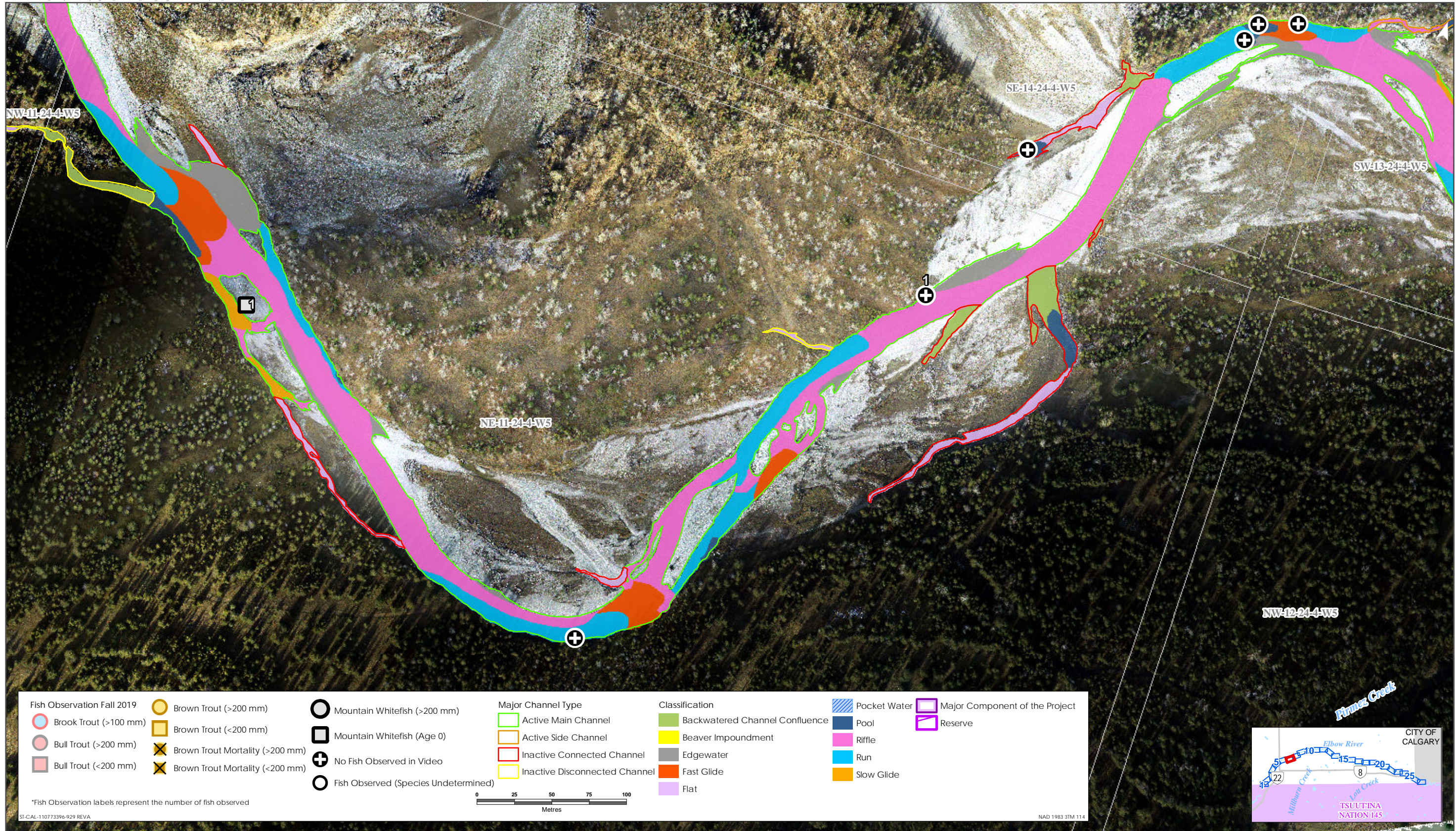




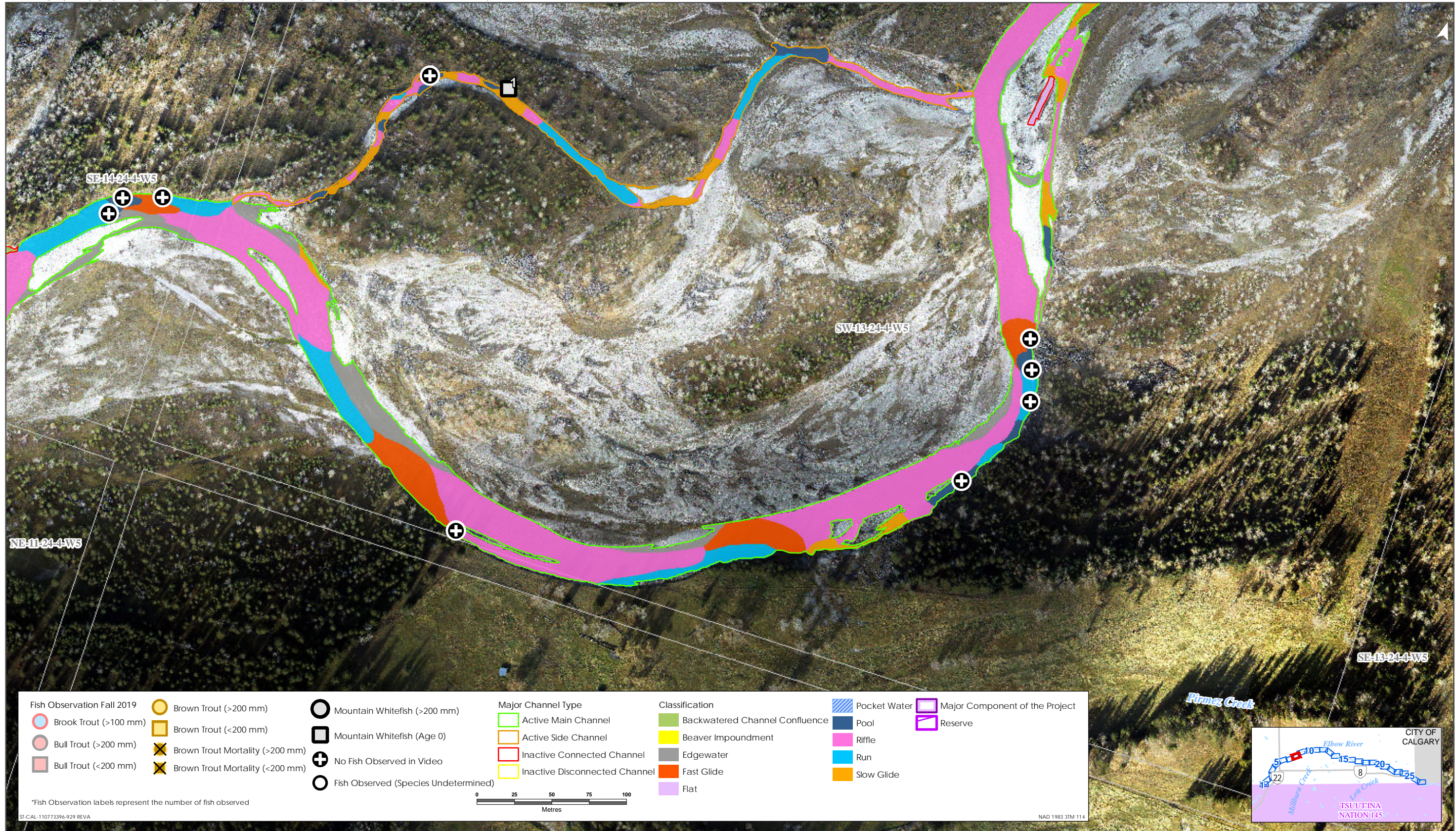
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:1m 10cm resolution October 2019



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



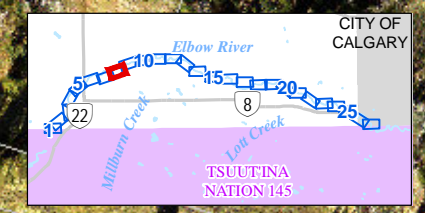
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019



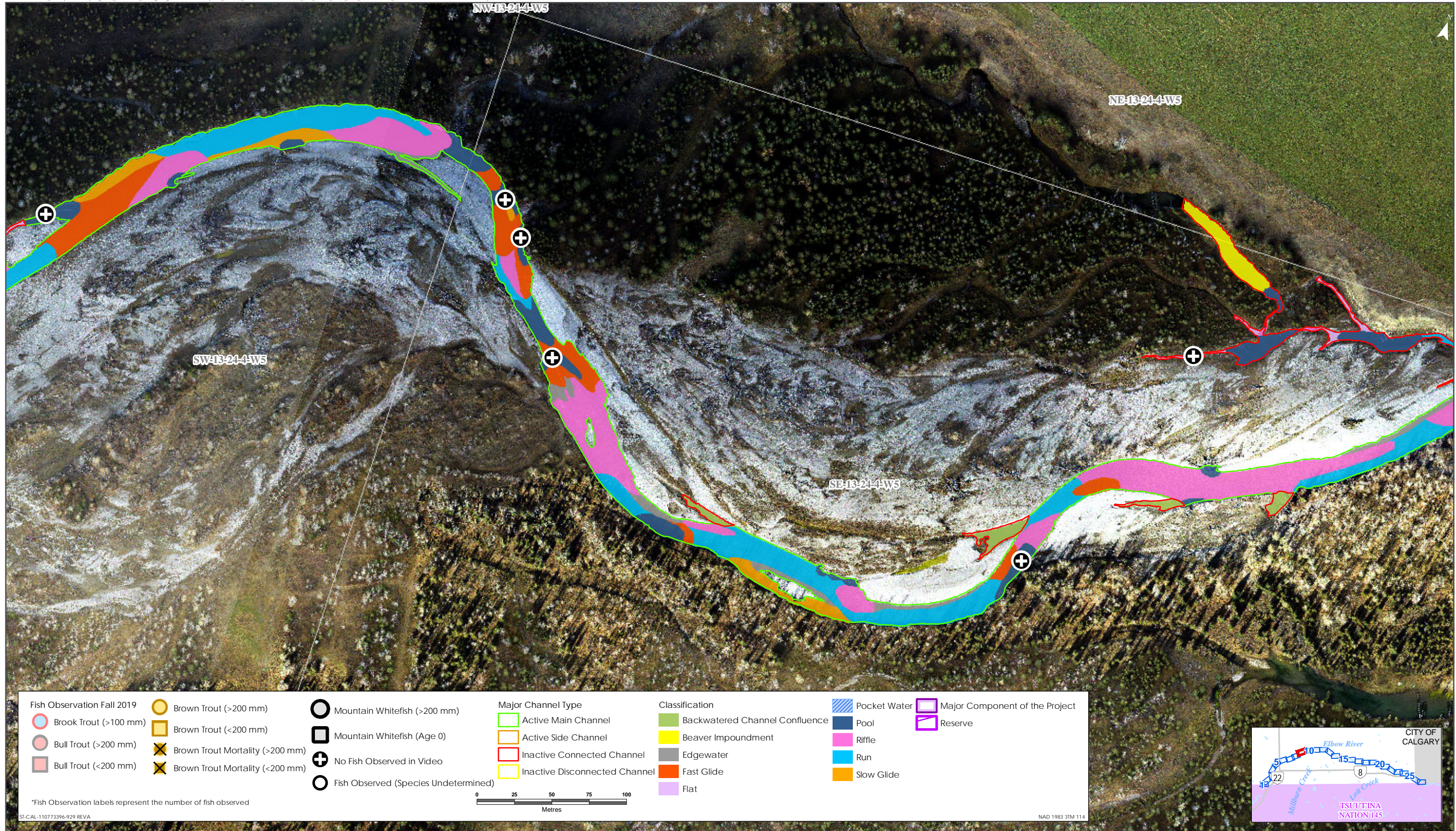
<p>Fish Observation Fall 2019</p> <ul style="list-style-type: none"> ○ Brook Trout (>100 mm) ○ Bull Trout (>200 mm) ○ Bull Trout (<200 mm) 	<ul style="list-style-type: none"> ○ Brown Trout (>200 mm) ○ Brown Trout (<200 mm) ✕ Brown Trout Mortality (>200 mm) ✕ Brown Trout Mortality (<200 mm) 	<ul style="list-style-type: none"> ○ Mountain Whitefish (>200 mm) ○ Mountain Whitefish (Age 0) + No Fish Observed in Video ● Fish Observed (Species Undetermined) 	<p>Major Channel Type</p> <ul style="list-style-type: none"> Active Main Channel Active Side Channel Inactive Connected Channel Inactive Disconnected Channel 	<p>Classification</p> <ul style="list-style-type: none"> Backwatered Channel Confluence Beaver Impoundment Edgewater Fast Glide Flat 	<ul style="list-style-type: none"> Pocket Water Pool Riffle Run Slow Glide 	<ul style="list-style-type: none"> Major Component of the Project Reserve
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*Fish Observation labels represent the number of fish observed

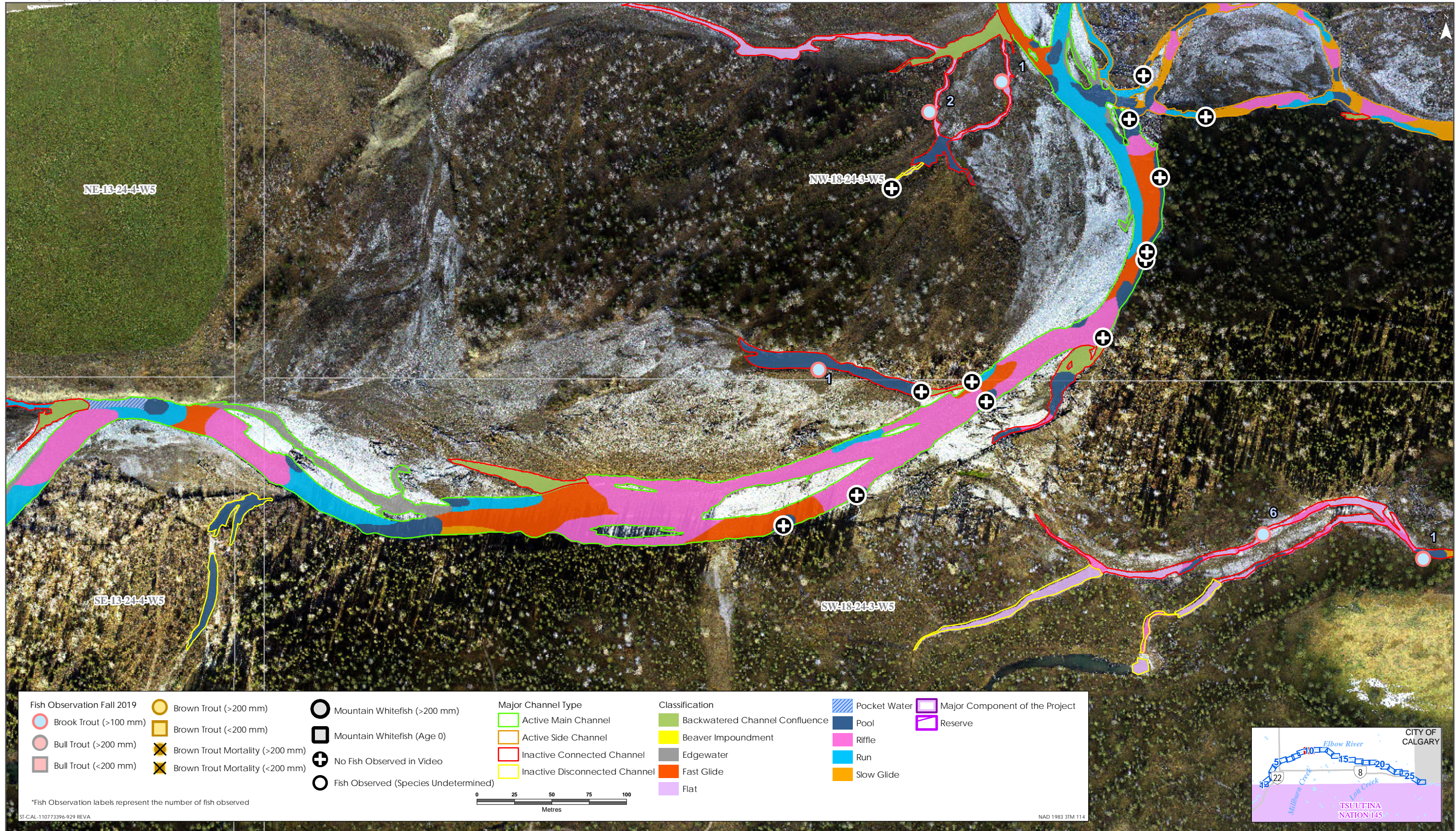
ST-CAL-110773396-929 REVA NAD 1983 3TM 114



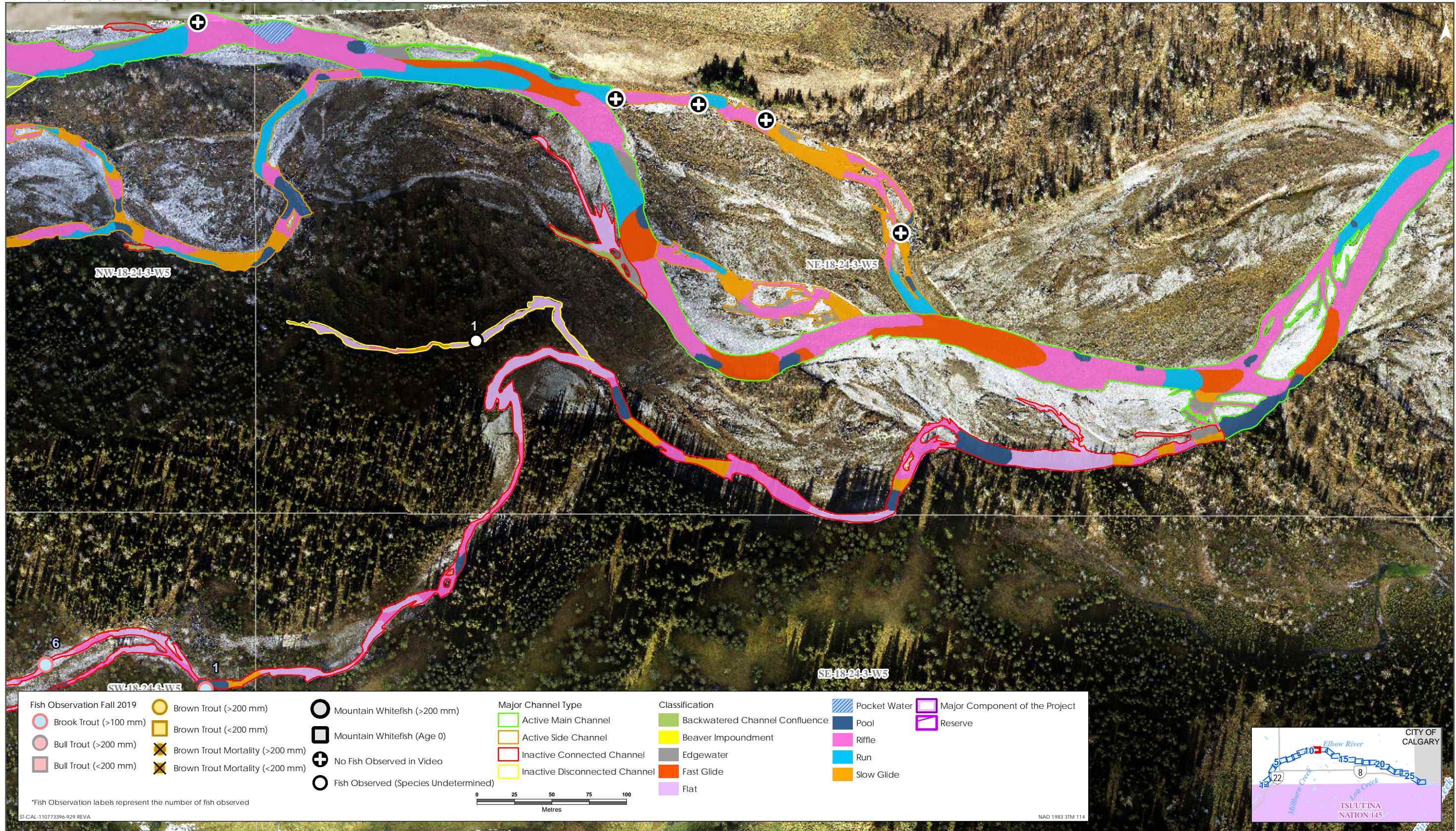
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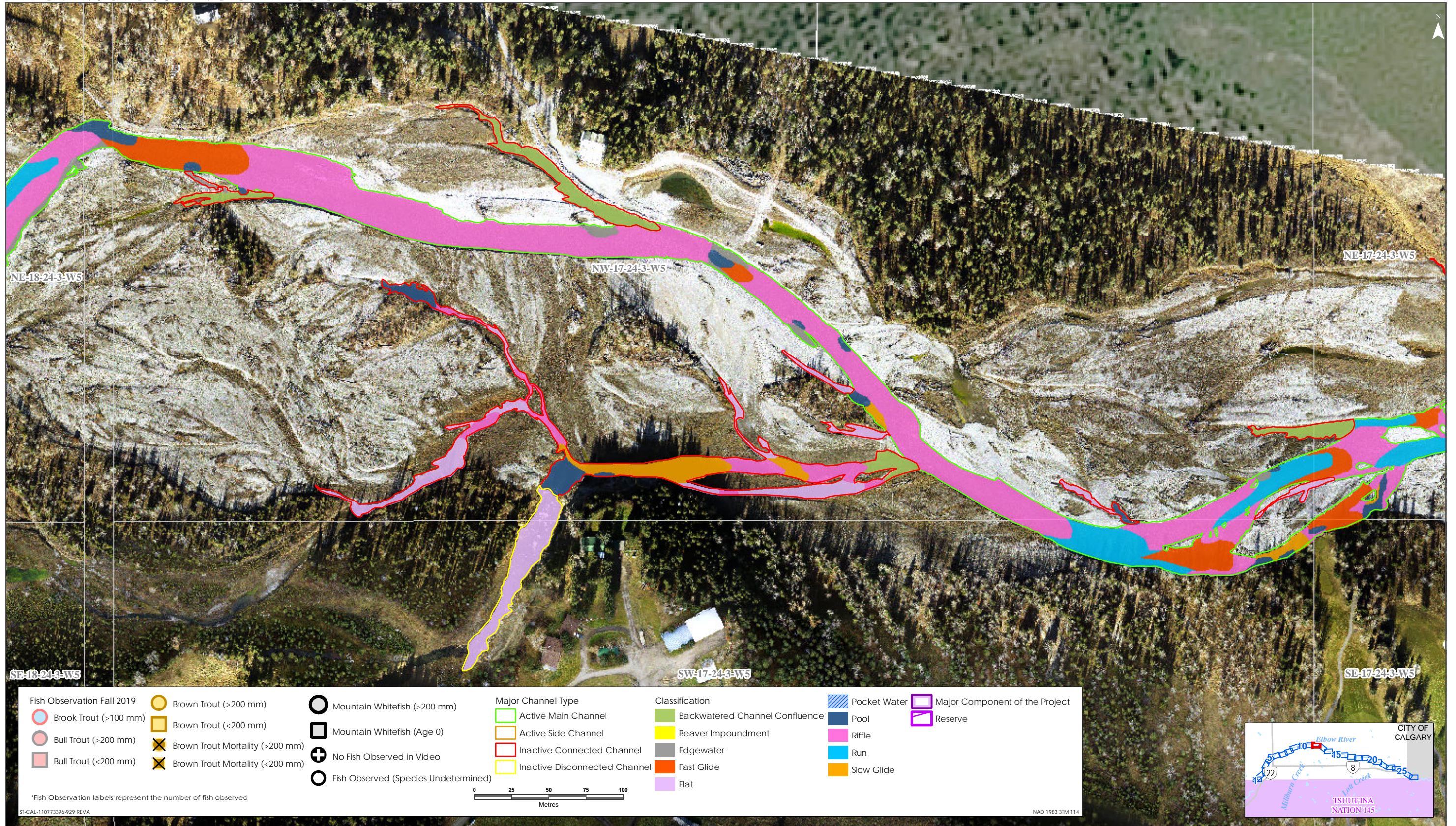
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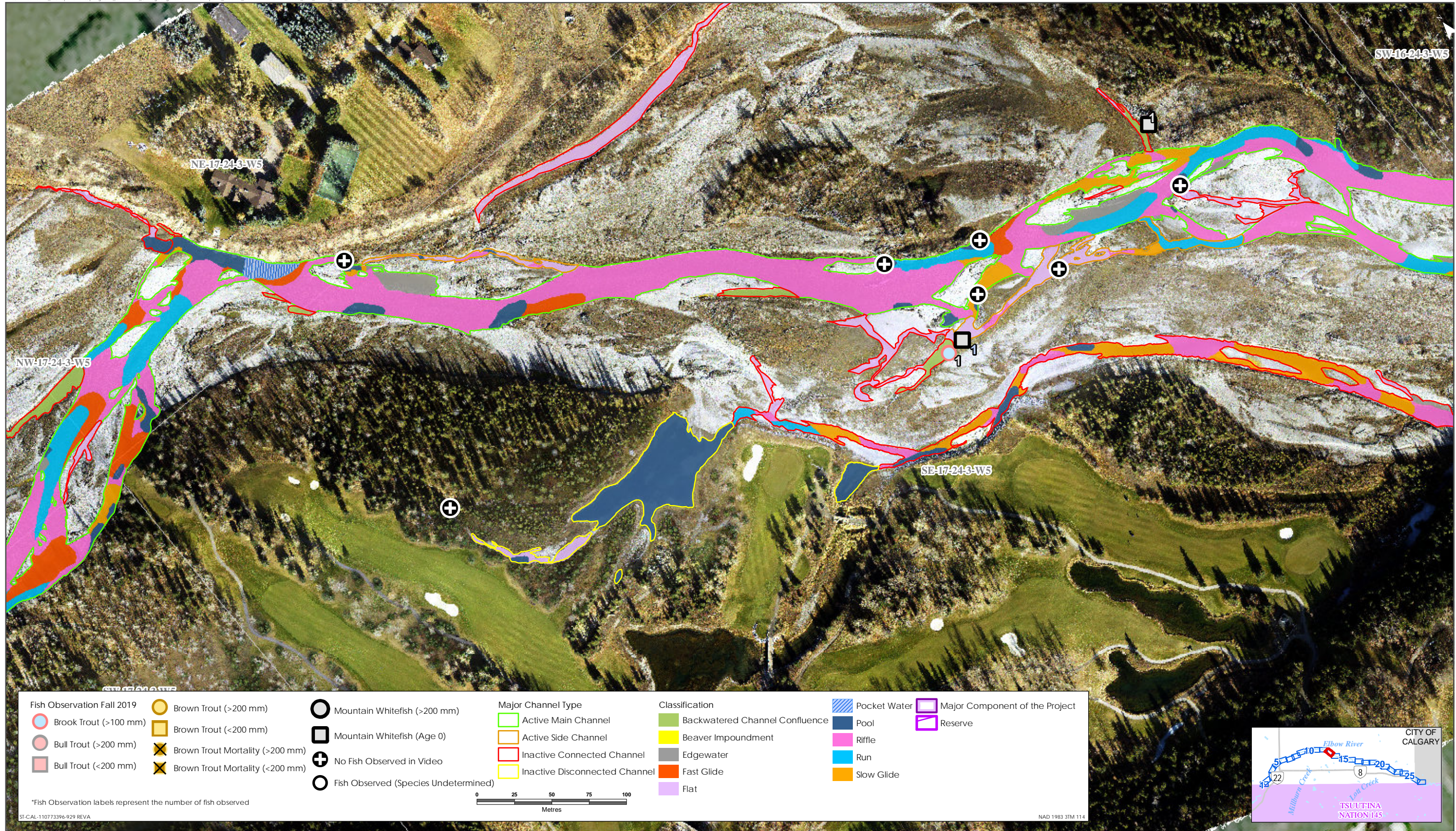
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019



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

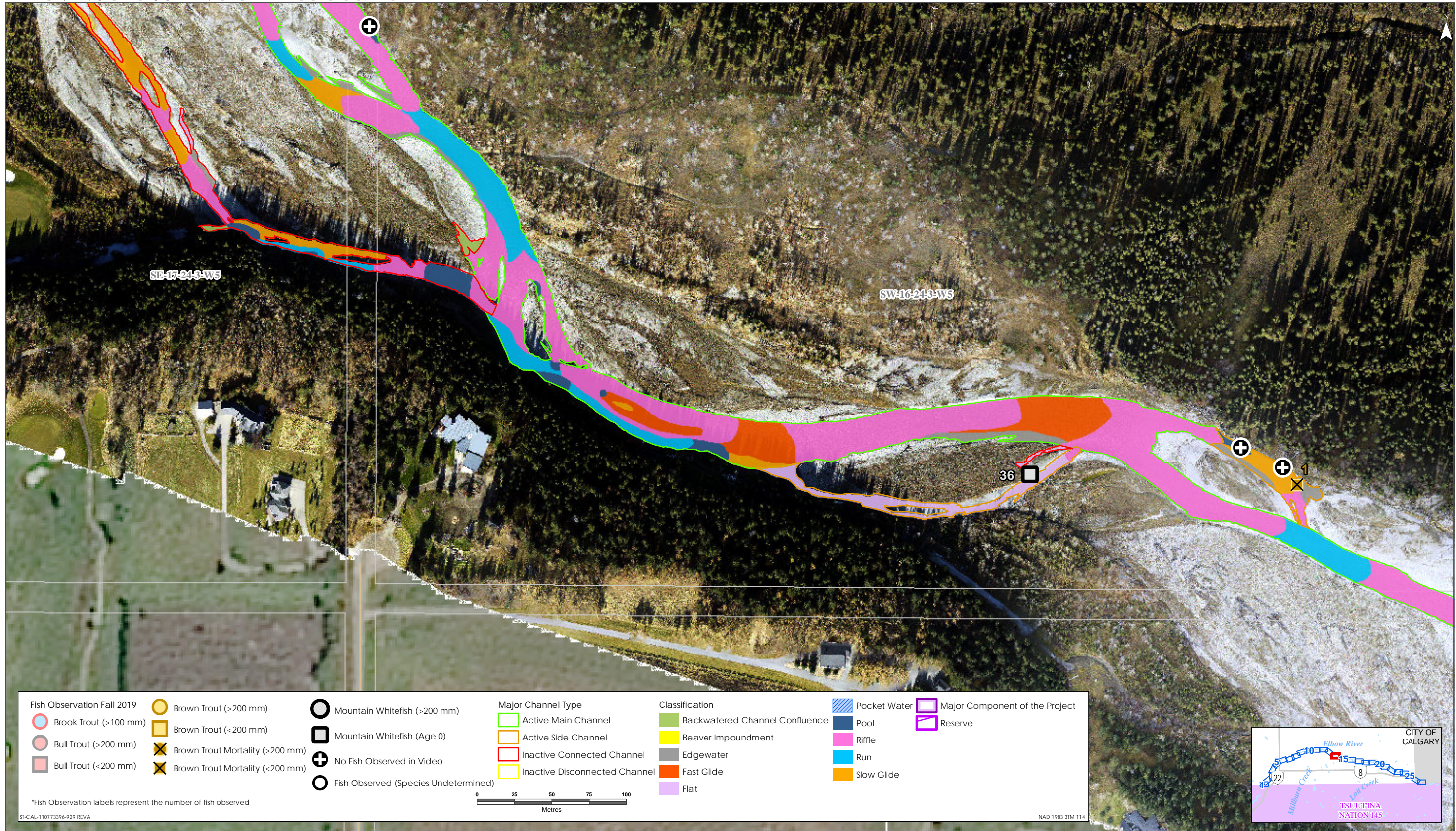


Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019



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





<p>Fish Observation Fall 2019</p> <ul style="list-style-type: none"> ○ Brook Trout (>100 mm) ○ Brook Trout (>200 mm) ○ Bull Trout (>200 mm) ○ Bull Trout (<200 mm) ○ Brown Trout (>200 mm) ○ Brown Trout (<200 mm) ✕ Brown Trout Mortality (>200 mm) ✕ Brown Trout Mortality (<200 mm) Mountain Whitefish (>200 mm) Mountain Whitefish (Age 0) No Fish Observed in Video Fish Observed (Species Undetermined) 	<p>Major Channel Type</p> <ul style="list-style-type: none"> Active Main Channel Active Side Channel Inactive Connected Channel Inactive Disconnected Channel 	<p>Classification</p> <ul style="list-style-type: none"> Backwatered Channel Confluence Beaver Impoundment Edgewater Fast Glide Flat Pocket Water Pool Riffle Run Slow Glide 	<p>Major Component of the Project</p> <ul style="list-style-type: none"> Major Component of the Project Reserve
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*Fish Observation labels represent the number of fish observed

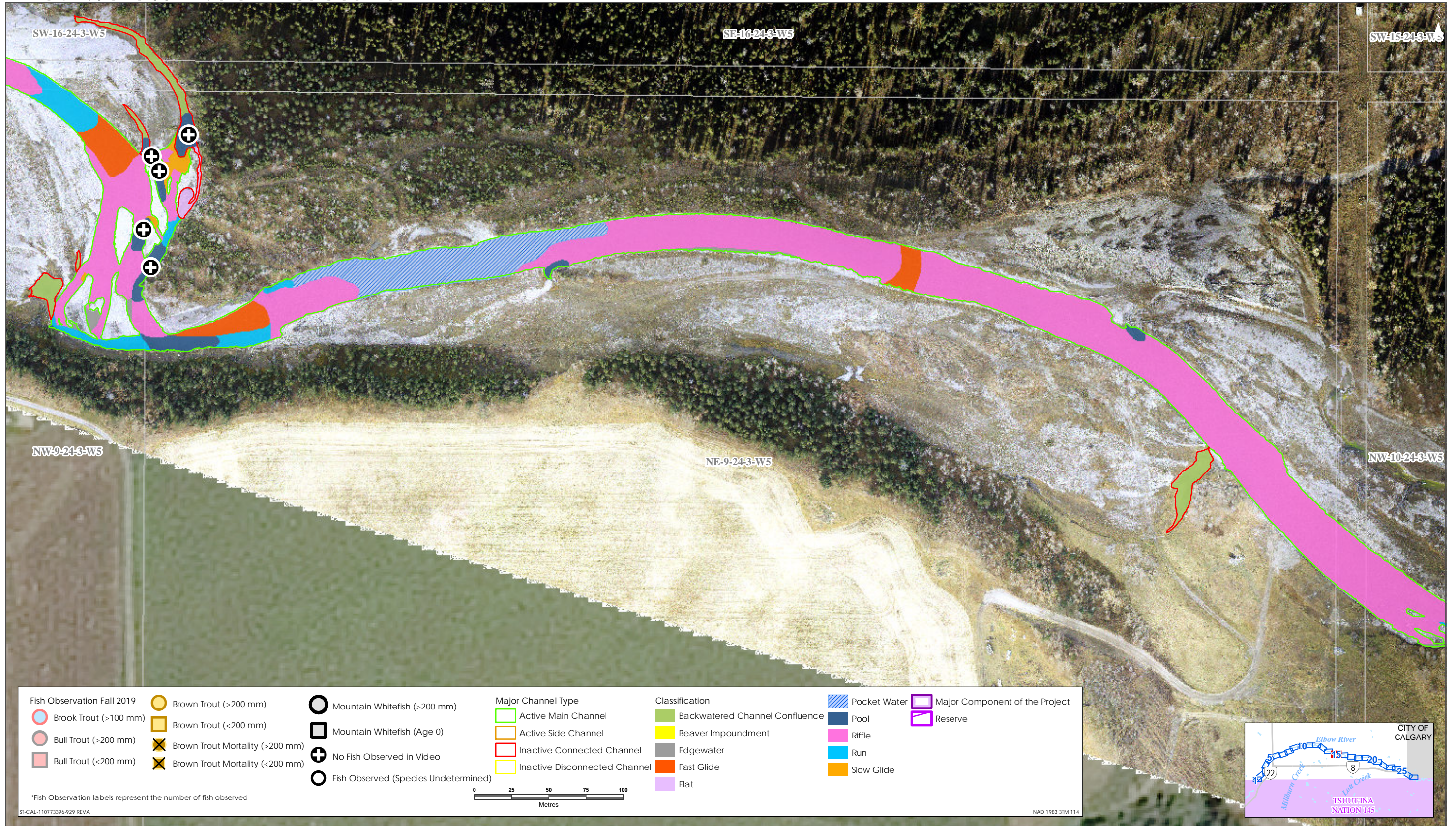
ST-CAL-110773396-929 REVA

0 25 50 75 100
Metres

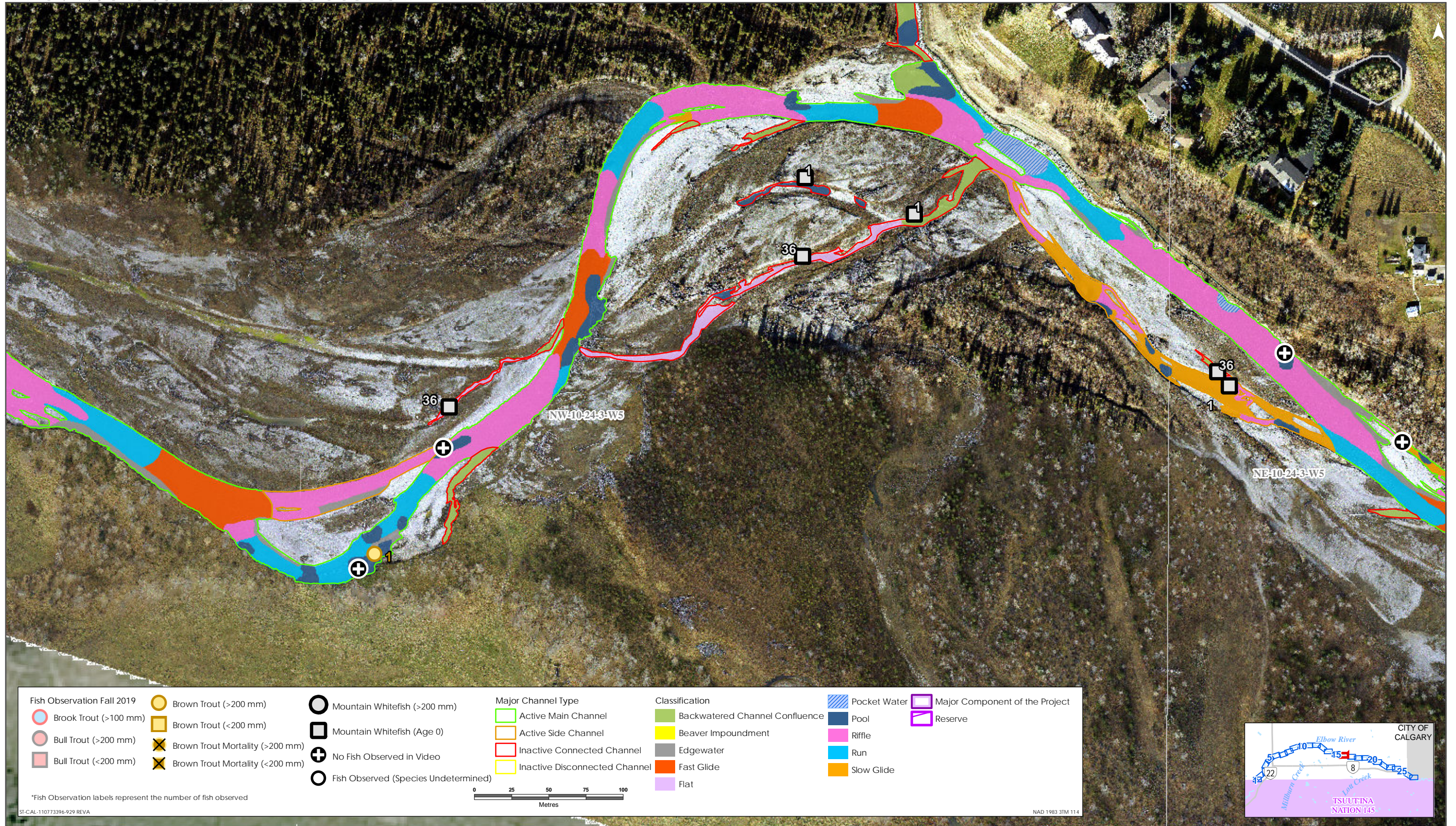
NAD 1983 3TM 114

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

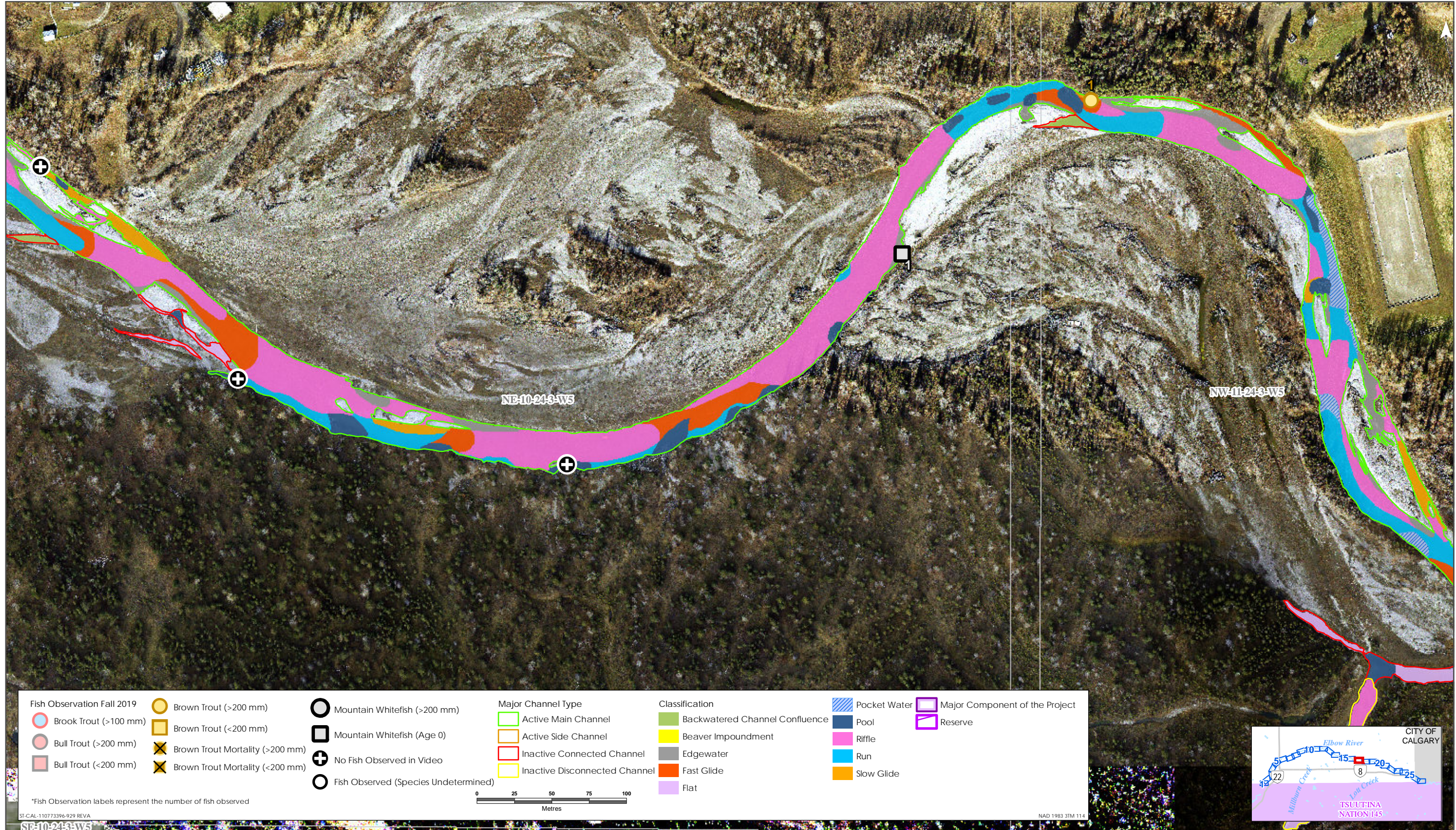




Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019



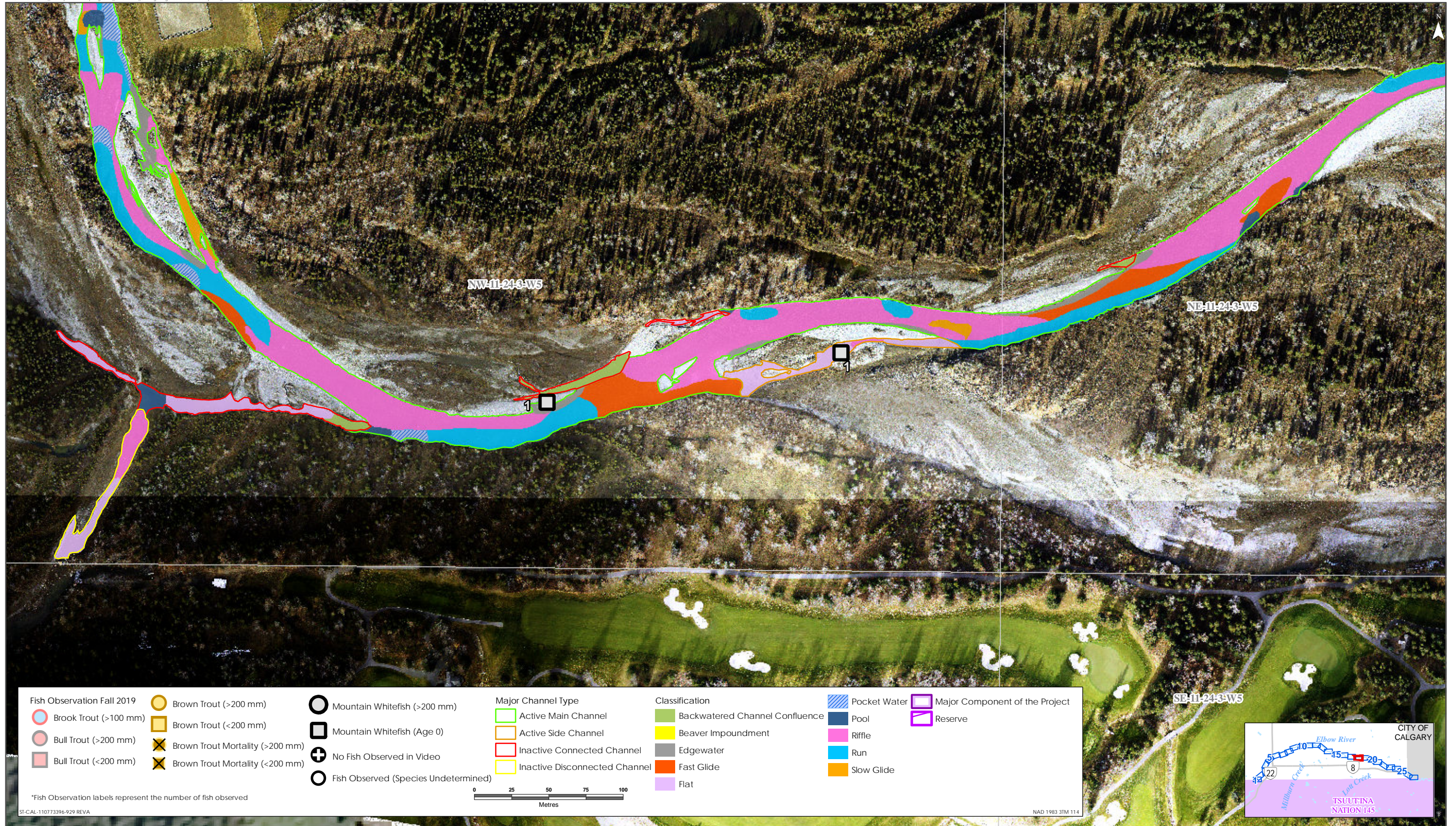
Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019



ST-CAL-110773396-929 REVA
SB-10-24-3-W5

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



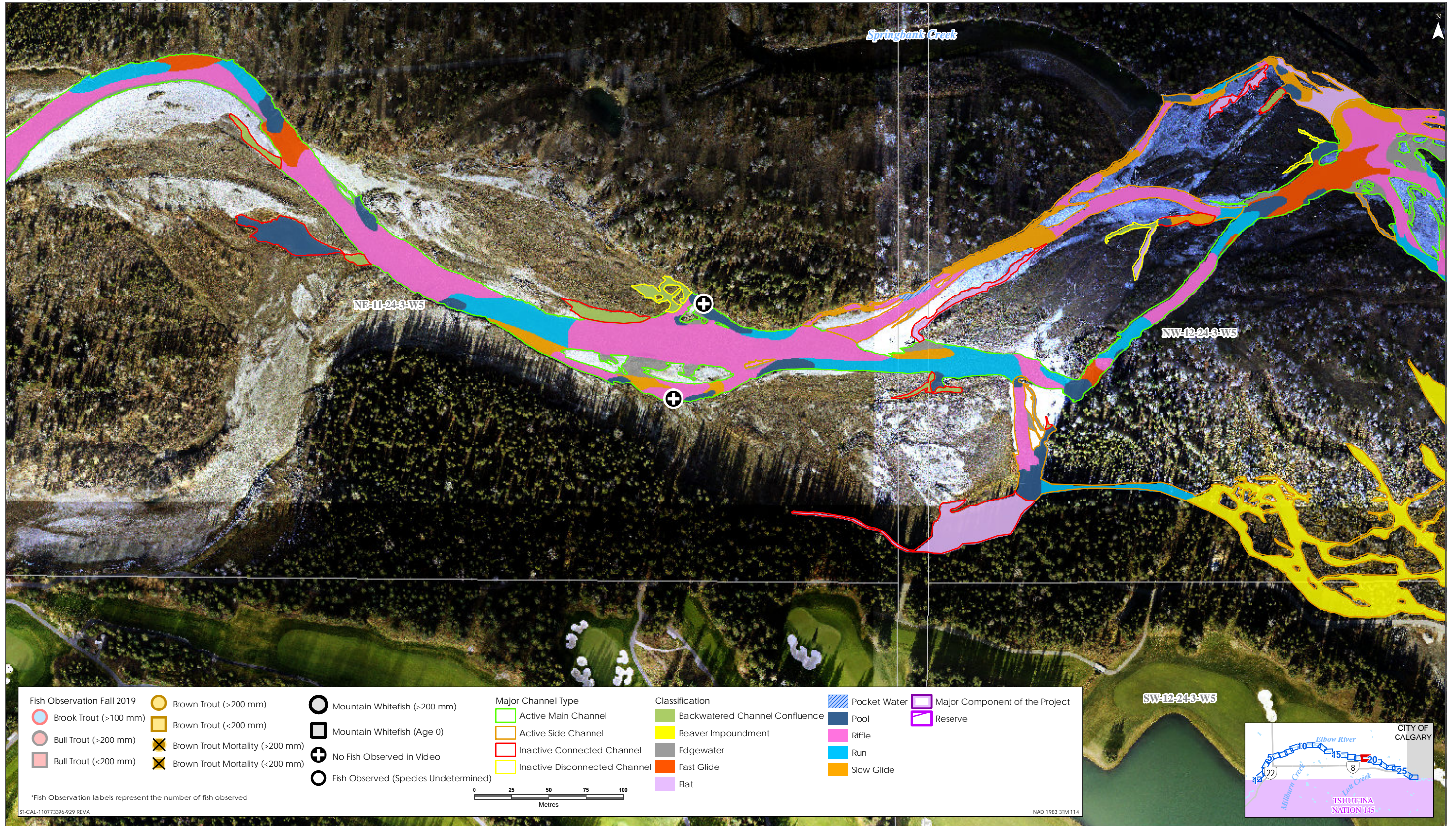


<p>Fish Observation Fall 2019</p> <ul style="list-style-type: none"> ○ Brook Trout (>100 mm) ○ Bull Trout (>200 mm) ○ Bull Trout (<200 mm) 	<ul style="list-style-type: none"> ○ Brown Trout (>200 mm) ○ Brown Trout (<200 mm) ✕ Brown Trout Mortality (>200 mm) ✕ Brown Trout Mortality (<200 mm) 	<ul style="list-style-type: none"> ○ Mountain Whitefish (>200 mm) ○ Mountain Whitefish (Age 0) + No Fish Observed in Video ○ Fish Observed (Species Undetermined) 	<p>Major Channel Type</p> <ul style="list-style-type: none"> □ Active Main Channel □ Active Side Channel □ Inactive Connected Channel □ Inactive Disconnected Channel 	<p>Classification</p> <ul style="list-style-type: none"> □ Backwatered Channel Confluence □ Beaver Impoundment □ Edgewater □ Fast Glide □ Flat 	<ul style="list-style-type: none"> □ Pocket Water □ Pool □ Riffle □ Run □ Slow Glide 	<ul style="list-style-type: none"> □ Major Component of the Project □ Reserve
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*Fish Observation labels represent the number of fish observed

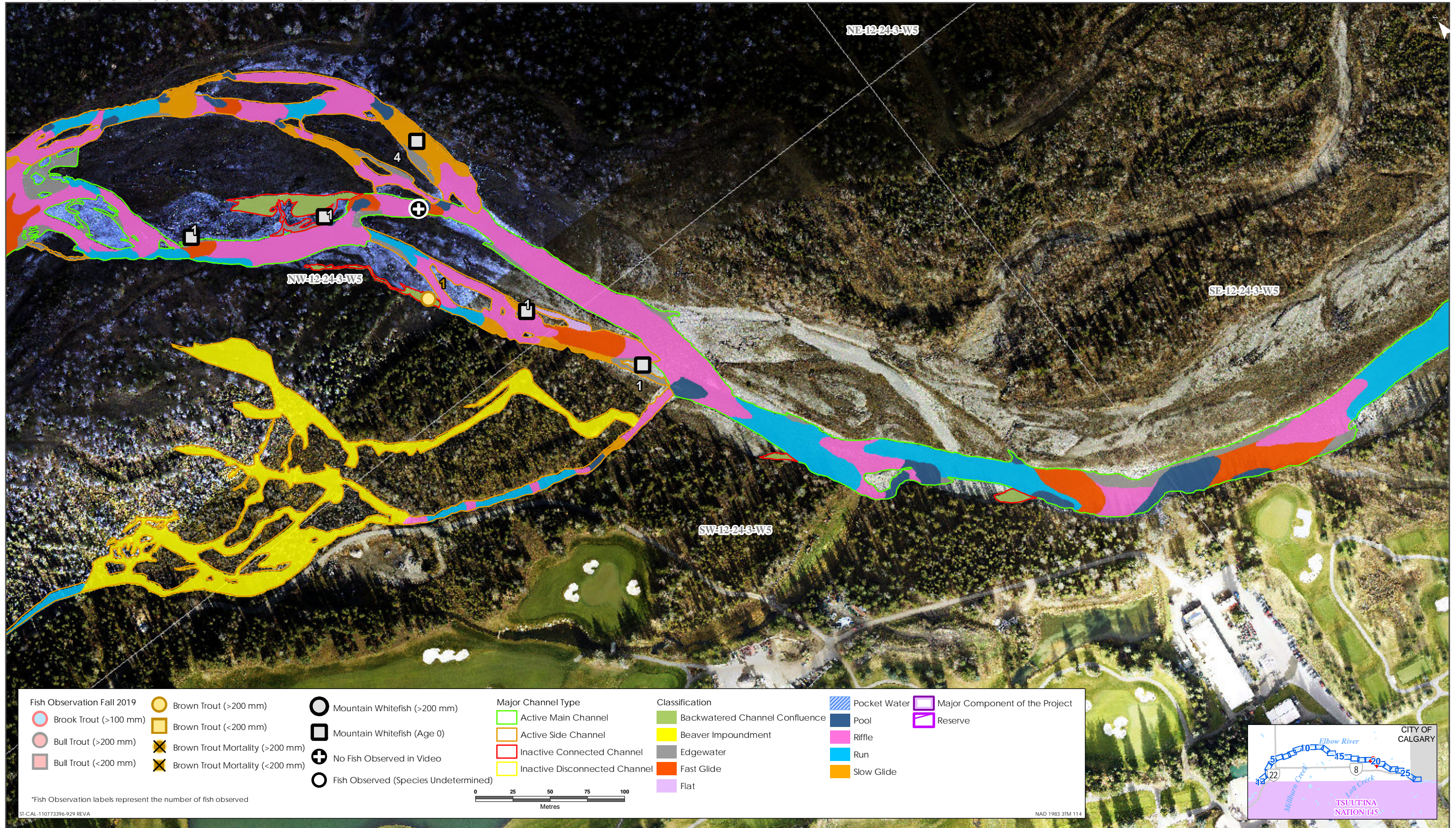
ST-CAL-110773396-929 REVA NAD 1983 3TM 114

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

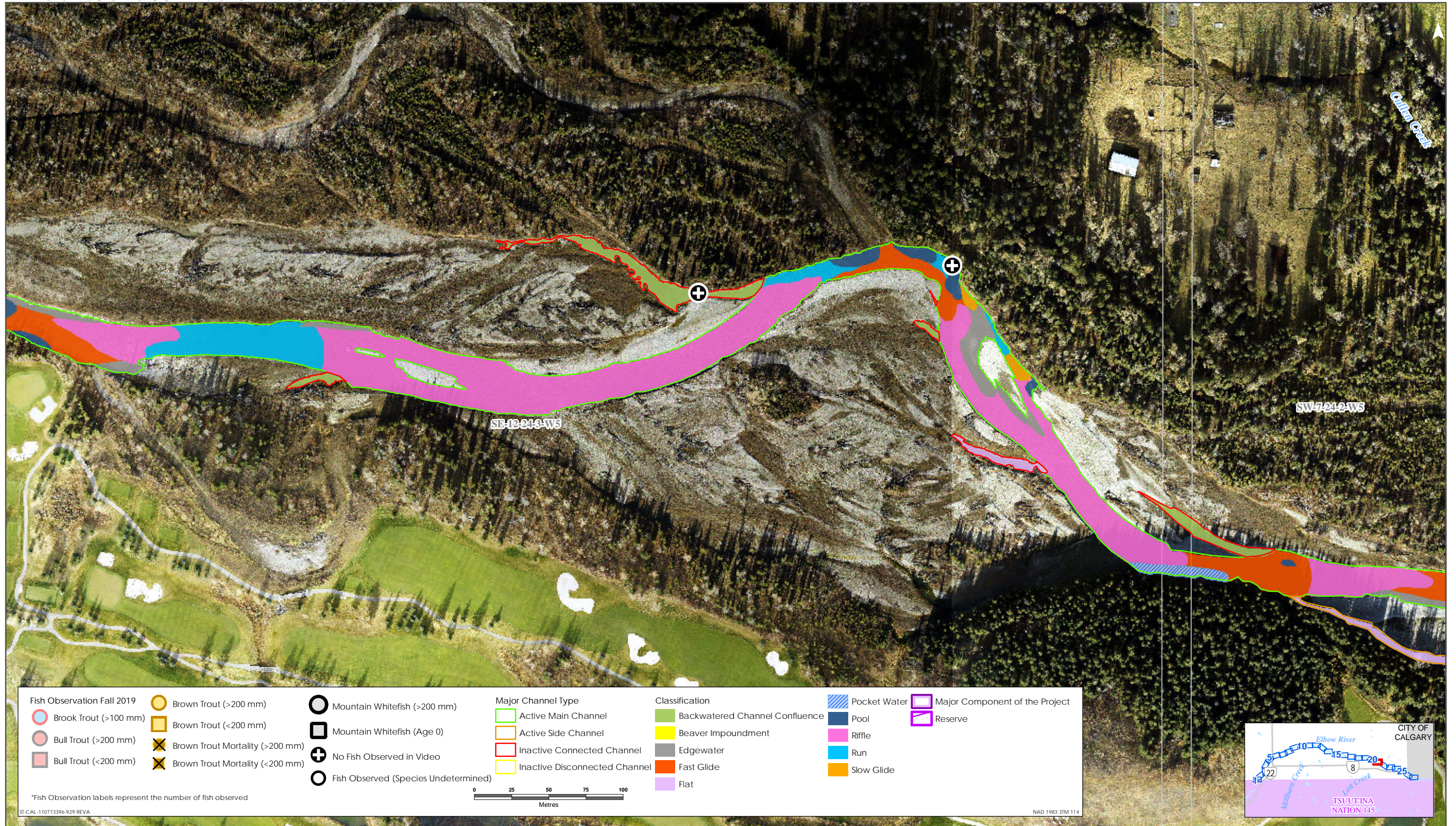


Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1.4m 10cm resolution October 2019

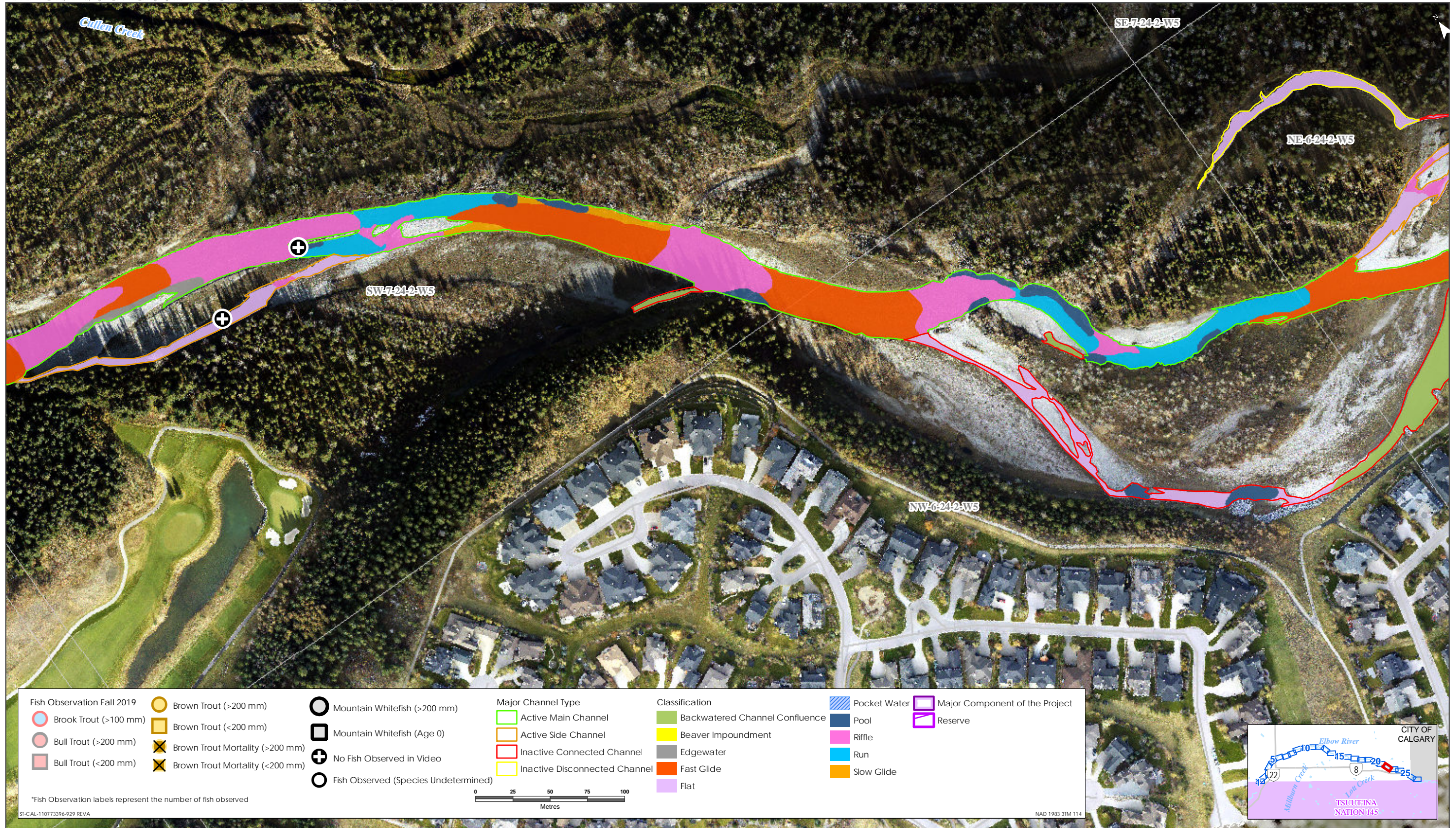




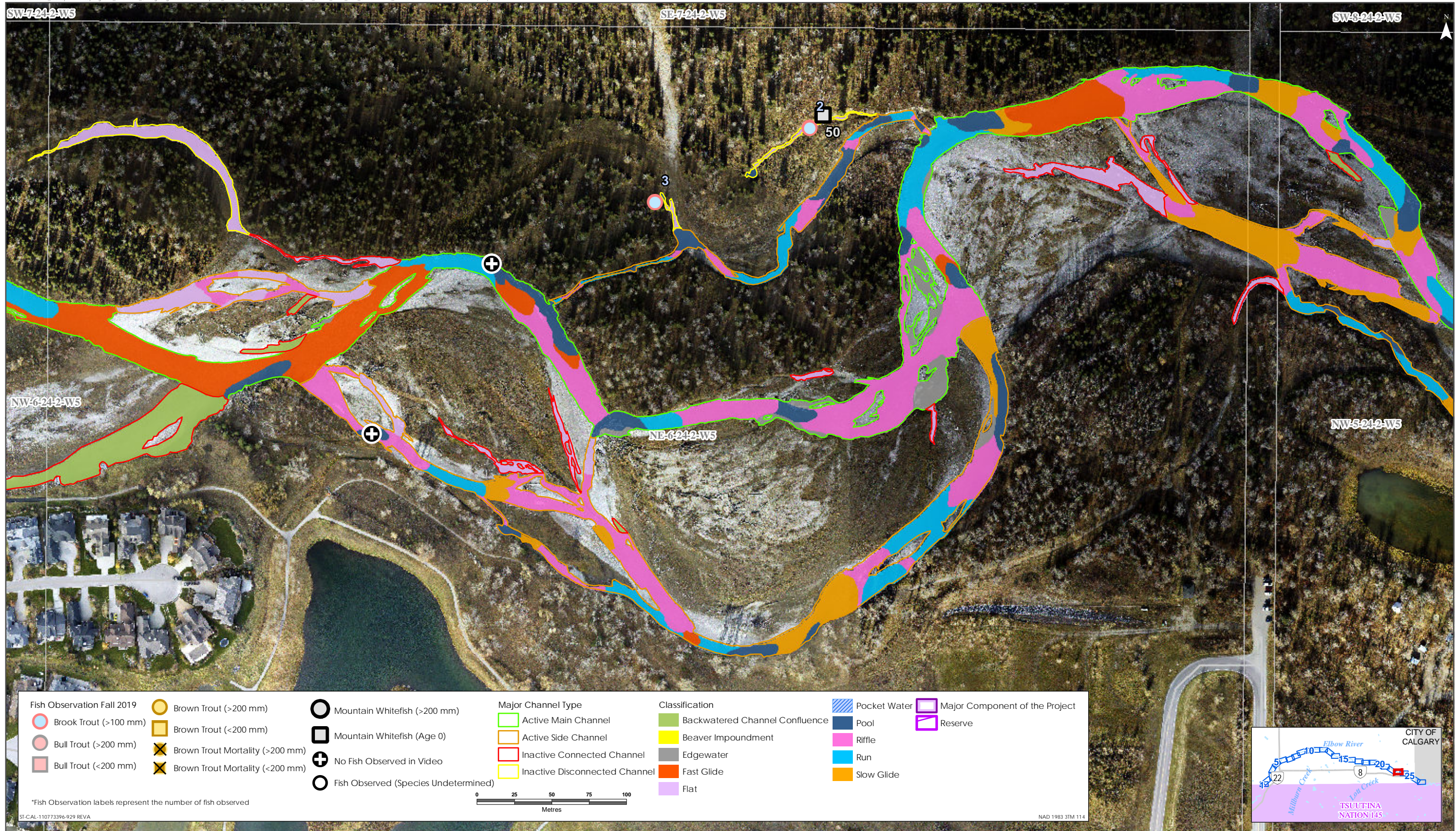
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Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd.
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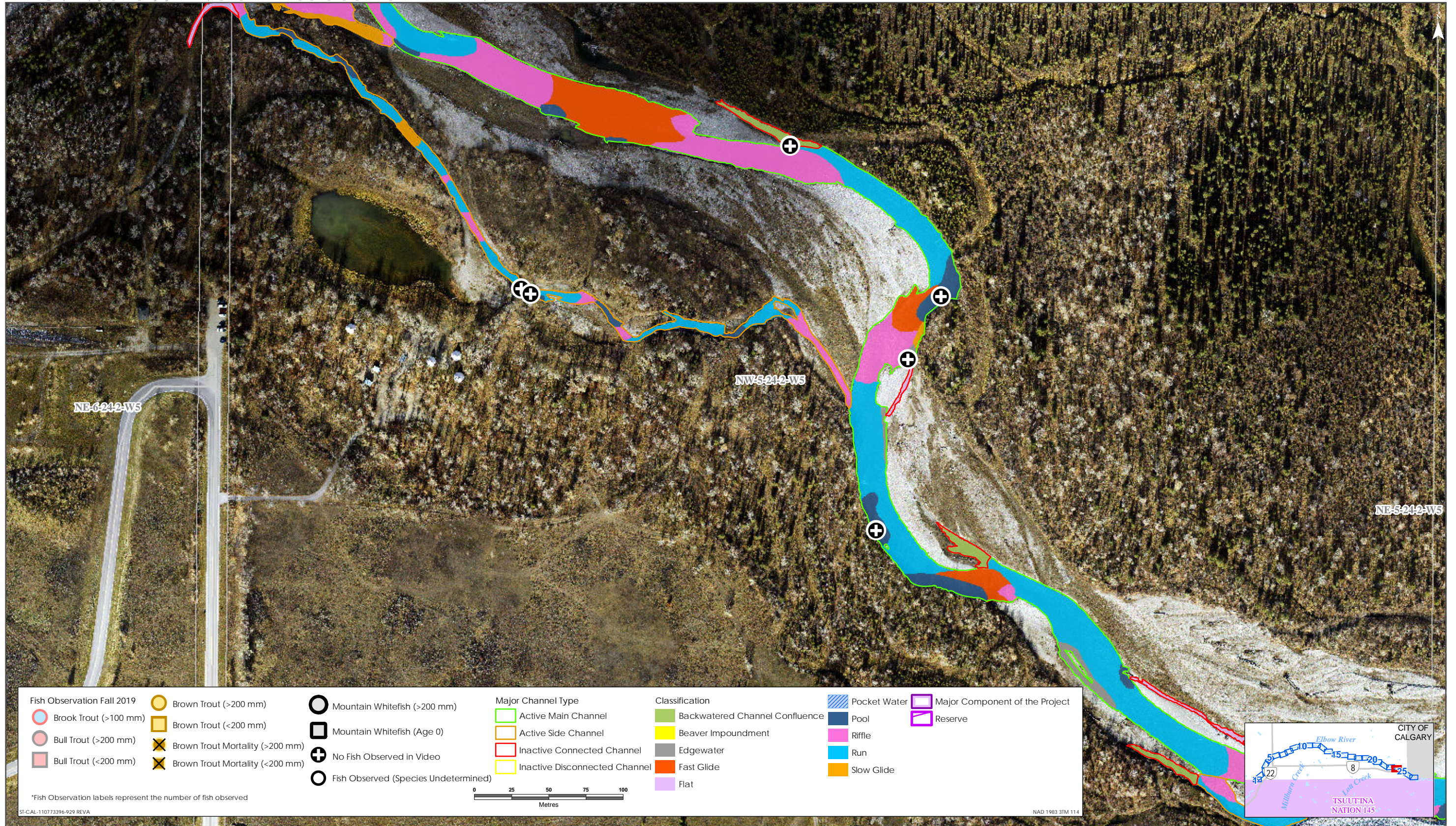


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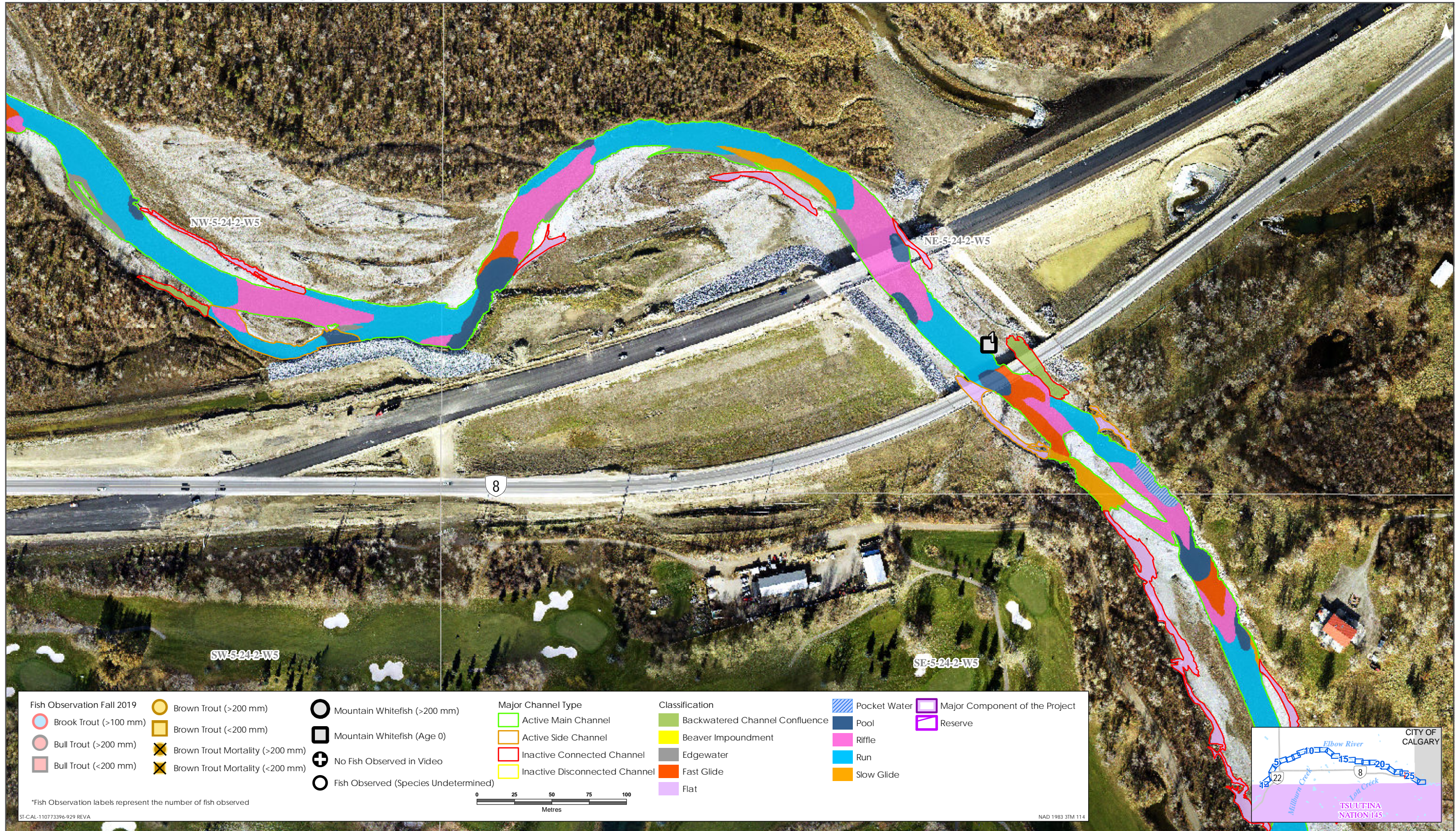


Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1:4m 10cm resolution October 2019





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



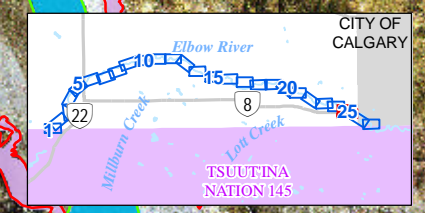
<p>Fish Observation Fall 2019</p> <ul style="list-style-type: none"> ○ Brook Trout (>100 mm) ● Brook Trout (>200 mm) ○ Bull Trout (>200 mm) ● Bull Trout (>200 mm) ○ Bull Trout (<200 mm) ● Bull Trout (<200 mm) 	<ul style="list-style-type: none"> ○ Brown Trout (>200 mm) ● Brown Trout (<200 mm) ✕ Brown Trout Mortality (>200 mm) ✕ Brown Trout Mortality (<200 mm) 	<ul style="list-style-type: none"> Mountain Whitefish (>200 mm) Mountain Whitefish (Age 0) + No Fish Observed in Video Fish Observed (Species Undetermined) 	<p>Major Channel Type</p> <ul style="list-style-type: none"> Active Main Channel Active Side Channel Inactive Connected Channel Inactive Disconnected Channel 	<p>Classification</p> <ul style="list-style-type: none"> Backwatered Channel Confluence Beaver Impoundment Edgewater Fast Glide Flat 	<ul style="list-style-type: none"> Pocket Water Pool Riffle Run Slow Glide 	<ul style="list-style-type: none"> Major Component of the Project Reserve
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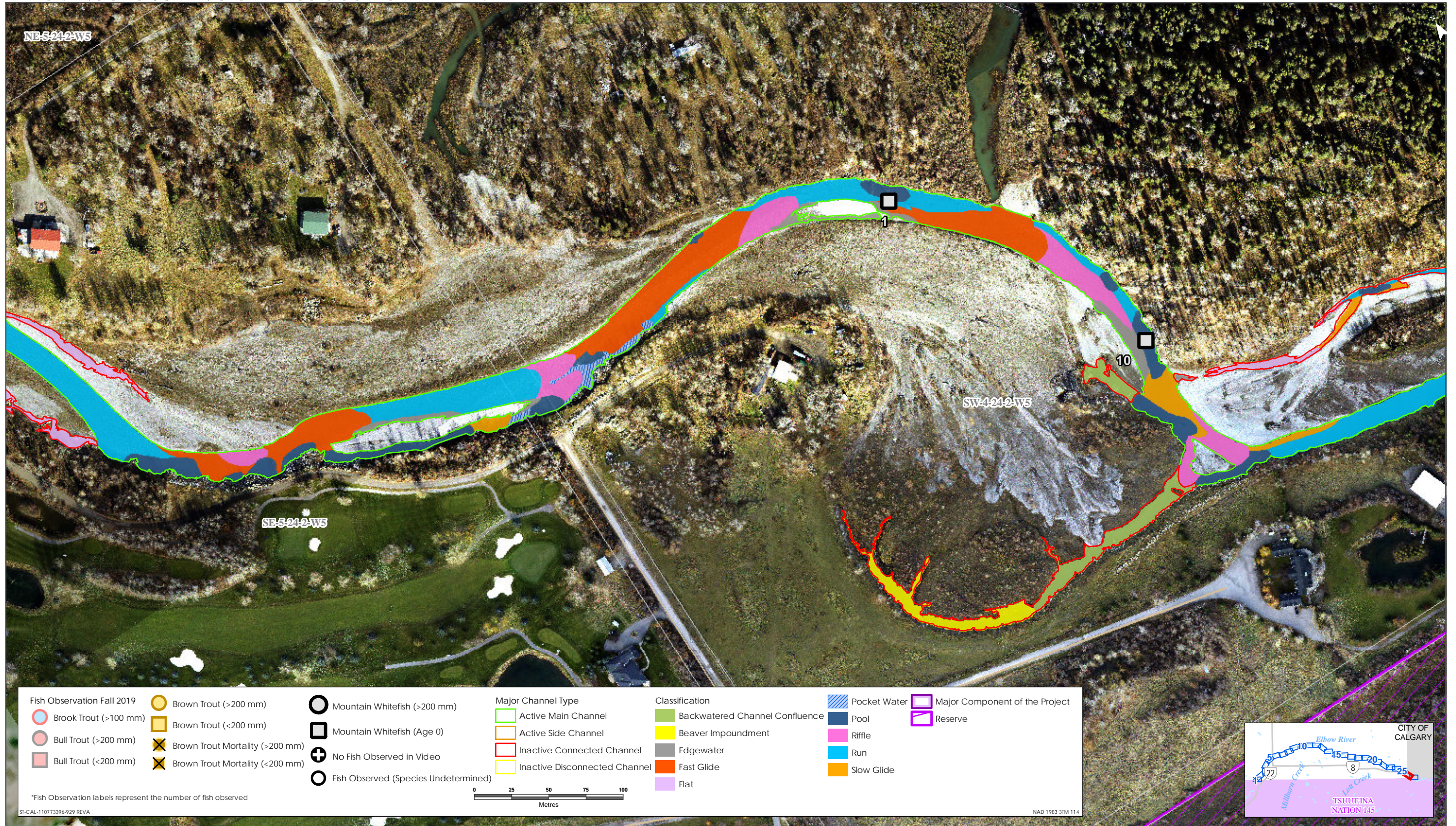
ST-CAL-110773396-929 REVA

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Metres

NAD 1983 31M 114

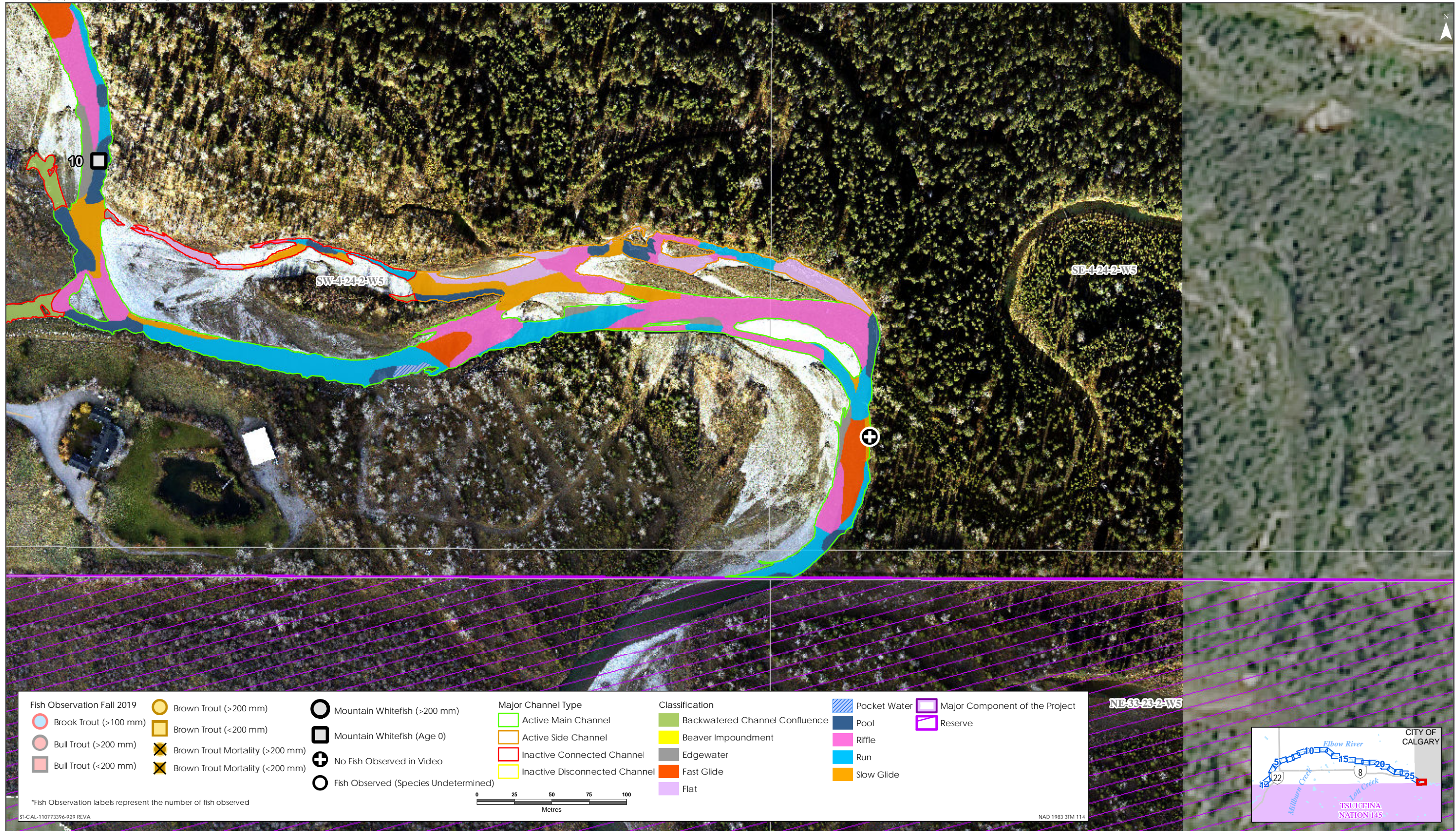


Sources: Base Data - Government of Alberta, Government of Canada. Thematic Data - Stantec Ltd. Imagery: 1-Air 10cm resolution October 2019



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





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

