



BRITISH
COLUMBIA

Ministry of
Environment and
Climate Change Strategy



Ministry of Environment Debris Action Plan

August 03, 2022



Executive Summary

The total number of known debris sites across the province is 507. Removal of debris and clean up of debris sites is ongoing. The Phase 1 (debris removal prior to freshet) has been completed for all of the major watercourses, and has been moved to Appendix D. Phase 2 debris removal (post freshet) will address any remaining debris. The table below breaks down by each watercourse.

| Watercourse | Outstanding Permits | Number of Known Debris Items (all identified, photographed and geotagged) | Removal Timeline |
|-------------|---------------------|--|--|
| Nicola | None | <p>99 debris sites identified of which:</p> <ul style="list-style-type: none"> ●60 debris sites have removal completed; and ●7 have been assessed and concluded not to be removed <p>This leaves 32 additional sites as work in progress</p> | Phase 2 large debris removal involving heavy equipment usage is in progress. Linear debris crews have mobilized for hand picking small debris at sites along the Nicola River. |
| Coldwater | None | <p>69 debris sites identified of which</p> <ul style="list-style-type: none"> ●41 debris sites have removal completed; and ● 9 have been assessed and concluded not to be removed <p>This leaves 19 additional sites as work in progress</p> | Phase 2 large debris removal involving heavy equipment usage is in progress. Linear debris crews have mobilized for hand picking small debris at sites along the Nicola River. |
| Thompson | None | <p>12 debris sites identified of which</p> <ul style="list-style-type: none"> ●6 debris sites have removal completed <p>This leaves 6 sites remaining as identified</p> | No field work is in progress as water levels are still receding, assessments of debris are ongoing. |
| Tulameen | None | <p>93 debris sites identified of which:</p> <ul style="list-style-type: none"> ● 34 debris sites have removal completed; and ● 17 have been assessed and concluded not to be removed <p>This leaves 42 sites remaining as work in progress</p> | Phase 2 heavy equipment work to remove large debris is in progress. |

Executive Summary - continued

| Watercourse | Outstanding Permits | Number of Known Debris Items (all identified, photographed and geotagged) | Removal Timeline |
|---------------------------------------|---------------------------------------|---|--|
| Similkameen | None | 53 debris sites identified of which: <ul style="list-style-type: none"> ● 14 debris sites have removal completed; and ● 10 have been assessed and concluded not to be removed This leaves 29 sites remaining as identified or work in progress. | Phase 2 heavy equipment work to remove large debris is in progress. |
| Fraser River | Some sites require updated DFO permit | 68 debris sites identified of which <ul style="list-style-type: none"> ● 38 debris sites has removal completed; and ● 5 have been assessed and concluded not to be removed This leaves 25 sites remaining as identified. | Site mobilization begins in some cases as early as 2nd week in August. |
| Chilliwack River & Vedder River/Canal | Some sites require updated DFO permit | 57 debris sites identified <ul style="list-style-type: none"> ● 16 debris sites has removal completed; ● 1 have been assessed and concluded not to be removed This leaves 40 sites remaining as identified. | Site mobilization begins in some cases as early as 2nd week in August. |
| Coquihalla River | None | 44 debris sites identified of which: <ul style="list-style-type: none"> ● 37 debris sites have removal completed; and ● 6 have been assessed and concluded not to be removed This leaves 1 site remaining as identified. | Site mobilization begins in some cases as early as 2nd week in August. |
| Other sites (Bella Coola & Kingcome) | ARC, DFO and FOR | 12 debris sites identified. <ul style="list-style-type: none"> ● 7 Bella Coola sites concluded not to be removed; and ● 3 Kingcome sites concluded not to be removed This leaves 2 sites remaining as identified. | Removal expected in September 2022. |

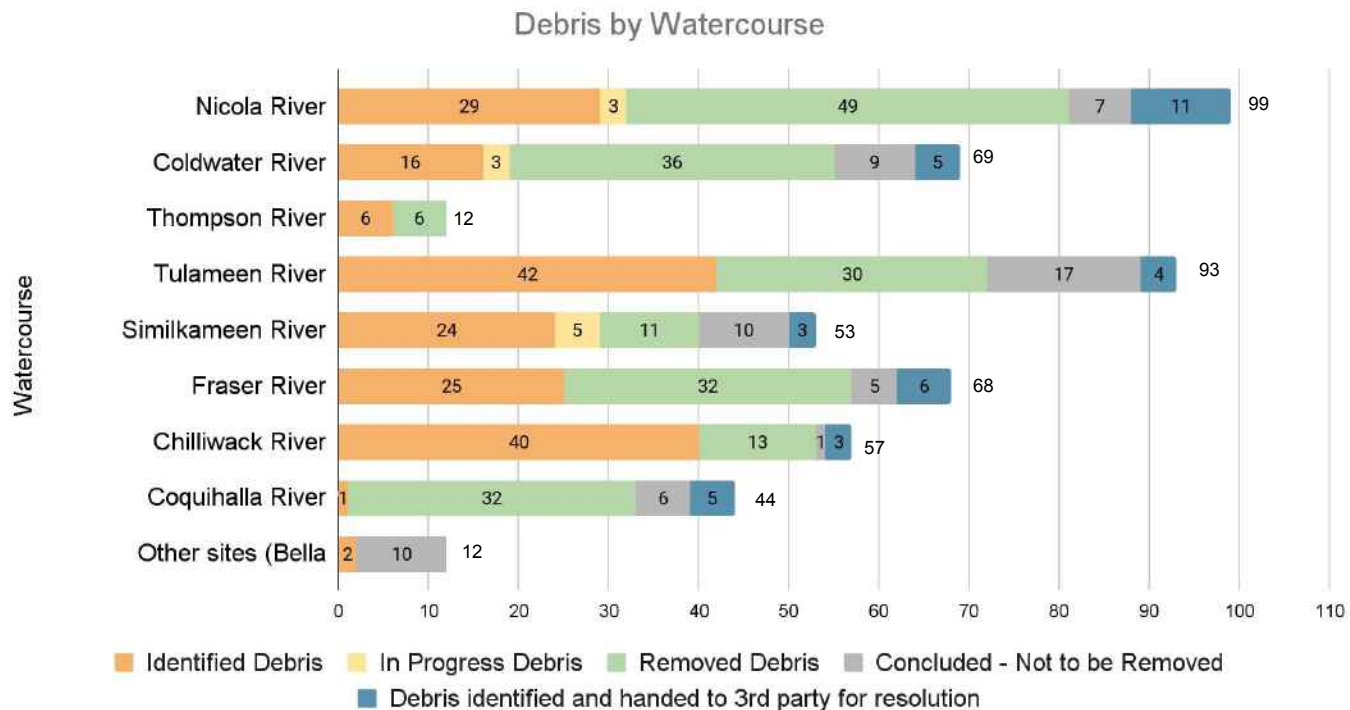
Executive Summary - continued

| Watercourse | Contractors | First Nations Contacted To Date |
|-------------|---|---|
| Nicola | <ul style="list-style-type: none"> ● Debris removal: Quattro Constructors, Arnett & Burgess (A&B), Valley Helicopters, Rock Solid Industries, Coastal Restoration Society (CRS) ● Qualified Environmental & Archeological Professional: Golder ● Field Work Management: Arnett & Burgess (A&B) | <ul style="list-style-type: none"> ● Cooks Ferry IB: Continuous and ongoing ● Shackan IB: Continuous and ongoing ● Nooaitch IB: Continuous and ongoing ● Lower Nicola IB: Continuous and ongoing ● Coldwater IB: Continuous and ongoing ● Lytton IB: Continuous and ongoing ● Biweekly call with First Nations groups in progress |
| Coldwater | <ul style="list-style-type: none"> ● Debris removal: Quattro Constructors, Arnett & Burgess (A&B), Valley Helicopters, Rock Solid Industries, Coastal Restoration Society (CRS) ● Qualified Environmental & Archeological Professional: Golder ● Field Work Management: Arnett & Burgess (A&B) | <ul style="list-style-type: none"> ● Cooks Ferry IB: Continuous and ongoing ● Shackan IB: Continuous and ongoing ● Nooaitch IB: Continuous and ongoing ● Lower Nicola IB: Continuous and ongoing ● Upper Nicola IB: Continuous and ongoing ● Lytton IB: Continuous and ongoing ● Coldwater IB: Continuous and ongoing ● Nicomen IB: Continuous and ongoing ● Biweekly call with First Nations groups in progress |
| Thompson | <ul style="list-style-type: none"> ● Debris Removal: Quattro Constructors, Arnett & Burgess, Valley Helicopters, Kootenay Helicopters, Rock Solid Industries ● Qualified Environmental & Archeological Professional: Golder ● Field Work Management: Arnett & Burgess (A&B) | <ul style="list-style-type: none"> ● Cooks Ferry: Continuous and ongoing ● Biweekly call with First Nations groups in progress |
| Tulameen | <ul style="list-style-type: none"> ● Debris Removal: Multiple local contractors ● Qualified Environmental & Archeological Professional: Tetra Tech ● Field Work Management: Clearview Demolition | <ul style="list-style-type: none"> ● Upper Similkameen IB: Continuous and ongoing ● Lower Similkameen IB: Continuous and ongoing ● Biweekly call with First Nations groups in progress |

Executive Summary - continued

| Watercourse | Contractors | First Nations Contacted To Date |
|---------------------------------------|--|---|
| Similkameen | <ul style="list-style-type: none"> ● Debris Removal: TriValley and multiple other local contractors ● Qualified Environmental & Archeological Professional: Tetra Tech ● Field Work Management: Clearview Demolition | <ul style="list-style-type: none"> ● Upper Similkameen IB: Continuous and ongoing ● Lower Similkameen IB: Continuous and ongoing ● Biweekly call with First Nations groups in progress |
| Fraser River | <ul style="list-style-type: none"> ● Debris Removal: Stqó:ya Construction ● Qualified Environmental Professional: Stantec ● Qualified Archeological Professional: Stolo Nation ● Field Work Management: RAM Consulting | <ul style="list-style-type: none"> ● Mainland Coast Salish First Nations continuous and ongoing ● Biweekly call with First Nations groups in progress |
| Chilliwack River & Vedder River/Canal | <ul style="list-style-type: none"> ● Debris Removal: Stqó:ya Construction ● Qualified Environmental Professional: Stantec ● Qualified Archeological Professional: Stolo Nation ● Field Work Management: RAM Consulting | <ul style="list-style-type: none"> ● Mainland Coast Salish First Nations continuous and ongoing ● Biweekly call with First Nations groups in progress |
| Coquihalla River | <ul style="list-style-type: none"> ● Debris Removal: Stqó:ya Construction ● Qualified Environmental Professional: Stantec ● Qualified Archeological Professional: Stolo Nation ● Field Work Management: RAM Consulting | <ul style="list-style-type: none"> ● Mainland Coast Salish First Nations continuous and ongoing ● Biweekly call with First Nations groups in progress |

Executive Summary - continued



Total Debris Sites
507

Total Debris Sites Remaining
185

In Progress
11

Total Debris Sites Removed
209

Total Concluded Not to be Removed
65

Debris identified and handed to 3rd party for resolution
37

Note that the total number of debris sites in Nicola, Coldwater, Similkameen and Tulameen have reduced from the previous two reports as small items of debris have been condensed/removed from this list. All small items will be picked by the linear debris hand picking teams.

Overview

The Purpose of this document is to give the reader a pictorial overview of the debris sites (human-made and natural) found to date across the province of British Columbia that were affected by the November 2021 atmospheric river flooding event.

A list of known debris sites found to date are summarized under each watercourse section. In some cases the debris sites have human-made debris mixed with woody debris or debris that has been buried. The photos on the map may not always highlight all the debris in the area, they are updated as new information becomes available. There are ongoing assessments of known debris, as assessments are completed debris concluded as not in scope for removal will be shown as such on this document.

The identification, assessment and removal of work for Phase 1 has been completed and moved into Appendix D for all watercourses. Phase 1 refers to work completed prior to freshet. Phase 2 will commence in the watercourses post freshet.

| | Watercourses | Page |
|----|--|------|
| 1 | Nicola River (Highway 8; Spences Bridge to Merritt) | 8 |
| 2 | Coldwater River (Highway 5) | 22 |
| 3 | Thompson River | 32 |
| 4 | Merritt Region Linear Debris Removal | 38 |
| 5 | Tulameen River | 41 |
| 6 | Similkameen River | 57 |
| 7 | Fraser River | 68 |
| 8 | Chilliwack River & Vedder River/Canal | 80 |
| 9 | Coquihalla River | 91 |
| 10 | Other sites (Bella Coola & Kingcome) | 98 |
| 11 | Appendix A - Waste Management Strategic Plan | 103 |
| 12 | Appendix B - Containment Sampling Plan | 105 |
| 13 | Appendix C - Glossary | 108 |
| 14 | Appendix D - Phase 1 (December - April) Debris removal | 109 |



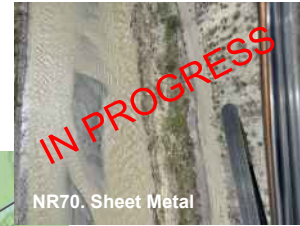
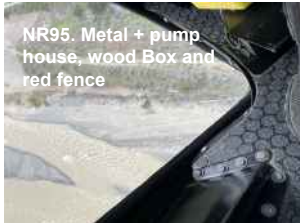
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Nicola River
Highway 8:
Spences
Bridge to
Merritt

Nicola River - Highway 8 - Spences Bridge to Merritt

| OVERVIEW | | | |
|---|--|---|---|
| Work objectives | Community discussions status | Known debris | Permits status |
| <p>1. Remove human made debris and any natural debris causing threat to either public safety or infrastructure.</p> <p>2. Preserve cultural and historically significant areas.</p> | <p>Ongoing communication with the bands and local authorities as the project planning progresses on specific operational matters.</p> <p>Recurring biweekly project update call with all local authorities and First Nations groups in the area scheduled for Thursday at 1:05pm. Representatives from the following groups are invited:</p> <ul style="list-style-type: none"> ● Coldwater IB ● Cooks Ferry IB ● Lower Nicola IB ● Lytton IB ● Nicomen IB ● Nooiatch IB ● Shackan IB ● City of Merritt ● Thompson Nicola Regional District | <p>99 debris sites identified in total</p> <p>Phase 1 (see Appendix D)</p> <ul style="list-style-type: none"> ● 50 debris sites have removal completed; ● 6 have been assessed and concluded not to be removed; and ● 6 are to be completed by another ministry <p>Phase 2</p> <ul style="list-style-type: none"> ● Site work started, first removal July 19, 2022. ● 4 sites have removal completed; ● 3 sites are work in progress; ● 1 site concluded not to be removed; and ● 29 additional sites identified. | <p>Permit applications for Phase 2 work submitted to FOR and DFO on Jun 15.</p> <p>Phase 1 permits included:</p> <ul style="list-style-type: none"> ● ARC Heritage Investigation Permit 2021-0453; NOI was issued Feb 28; ● FOR Approval A3006975 issued for Feb 14; and ● DFO Authorization issued Feb 14 under Approval 22-HPAC-00156 <p>Phase 2 permits included:</p> <ul style="list-style-type: none"> ● DFO Authorization issued July 18, 2022., Approval 22-HPAC-00816. ● FOR Approval A3006975 appended July 18 ,2022. |

Nicola River - Known Debris



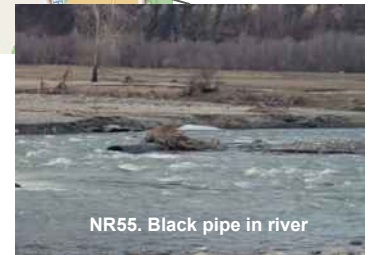
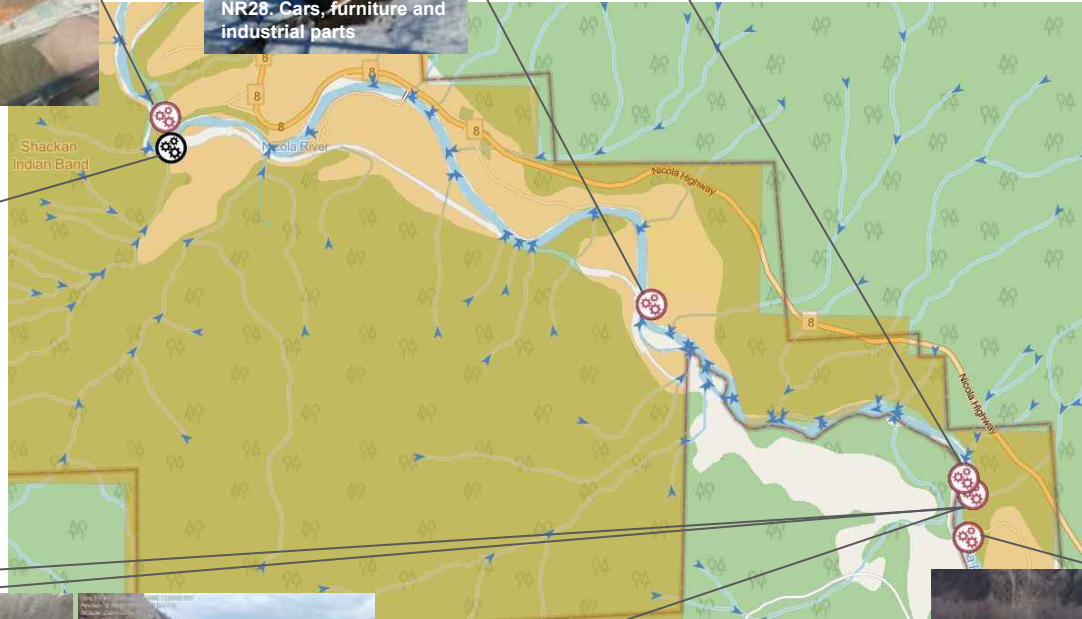
Nicola River - Known Debris



Nicola River - Known Debris



NR81. Culvert



Nicola River - Known Debris



NR78. Culvert x 2



NR98. Metal frame, metal debris and cable spool



NR98. Metal frame, metal debris and cable spool



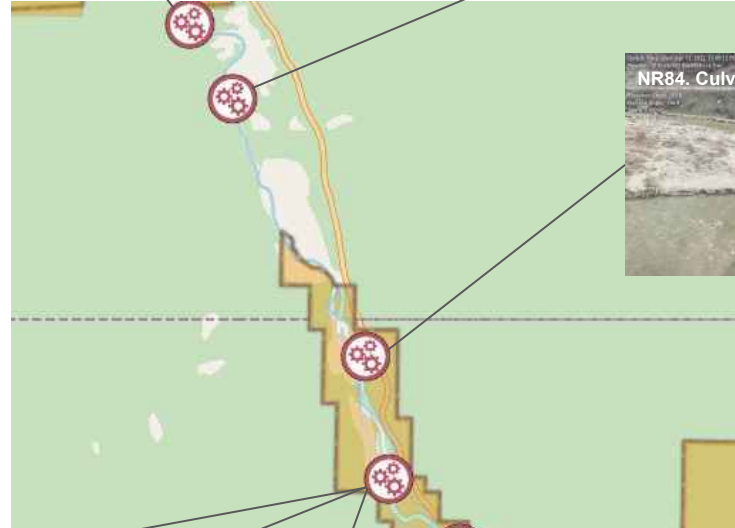
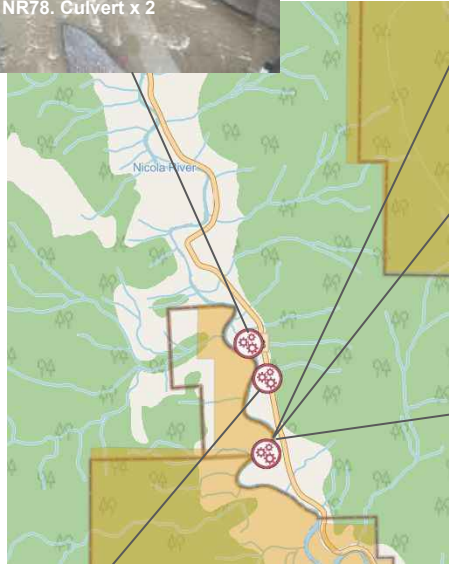
NR98. Metal frame, metal debris and cable spool



NR82. KVR bridge abutments(Fx ranch)



NR83. Unknown structure



NR84. Culvert



NR79. Culvert in water



NR101. Farm equipment, black fridge and sheet metal



NR101. Farm equipment, black fridge and sheet metal



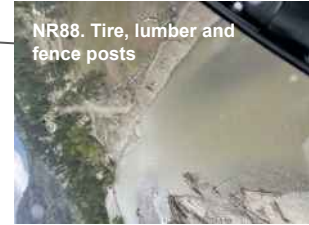
NR101. Farm equipment, black fridge and sheet metal

Nicola River - Known Debris

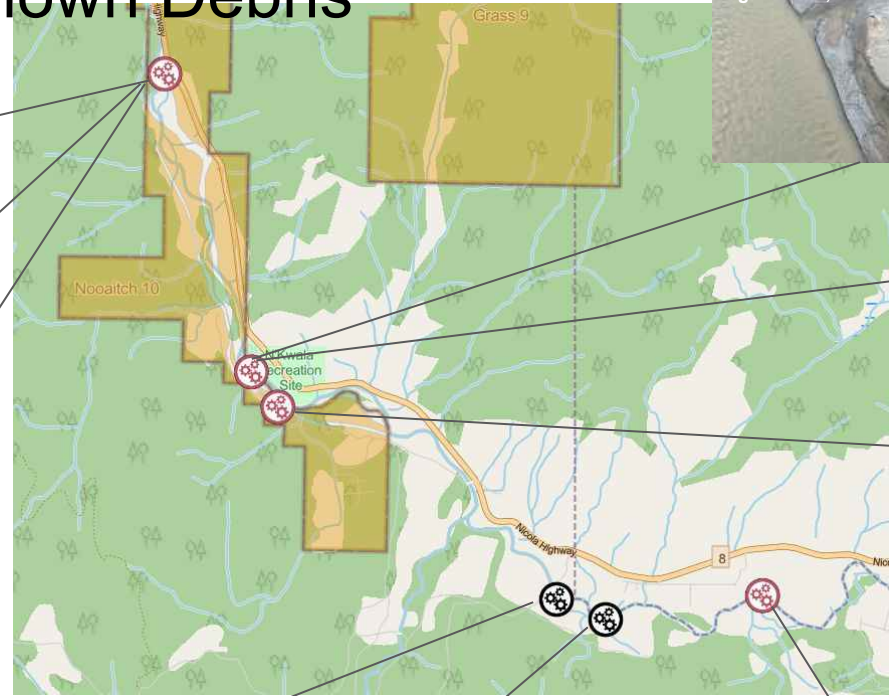
NR86. Embedded metal in gravel bar, horse trailer



NR86. Embedded metal in gravel bar, horse trailer



NR88. Tire, lumber and fence posts



NR85. Culvert, fish ladder and green tank lid



NR85. Culvert, fish ladder and green tank lid



NR85. Culvert, fish ladder and green tank lid



NR89. Red object in water



NR90. Truck + other red car part



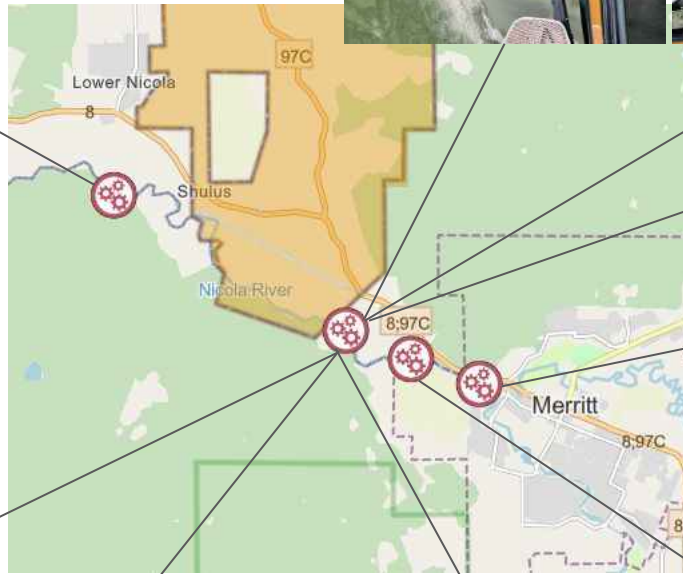
NR91. Metal frame



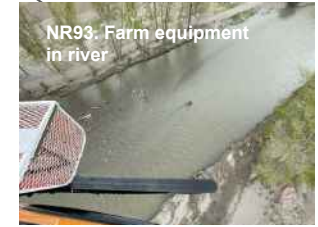
Nicola River - Known Debris



Nicola River - Known Debris



NR94. Submerged car (photo upcoming)



Nicola River Response Action Plan

| Action plan for post-freshet work | Estimated timeline for removal |
|---|--|
| <ul style="list-style-type: none"> • Debris will be assessed and human made debris that poses a high risk will be prioritized • Heavy equipment will include excavators, rock truck, flatbed trucks and other specialized equipment • Linear debris removal crews will be utilized for small anthropogenic debris • Helicopters will be utilized to support debris removal • Entrance routes and staging areas for equipment and debris are being reviewed and will be communicated to stakeholders prior to mobilization • Once debris has been removed from the waterway, contractors will follow waste management plans • Crews will stop work if human remains are found or unanticipated archaeological sites are discovered • Natural debris will be reviewed by QP, DFO and FOR to determine if it poses a threat to public safety and/or infrastructure | <ul style="list-style-type: none"> • Below are initial dates for removal to commence in the Nicola River and are subject to change as assessments are completed: <ul style="list-style-type: none"> ○ NR-70, 71: in progress ○ NR-78, 79: week of Aug 8 ○ NR-86, 88: week of Aug 8 ○ NR-92, 97, 98, 99: week of Aug 15 ○ NR-103, 104: week of Aug 8 ○ NR-97: on hold for clarification ○ NR-105: paused until monitors are in place • Additional dates to be provided in future reports. |
| Contractors involved | Waste management process |
| <p>Debris removal: Arnett & Burgess (A&B), Quattro Constructors, Valley Helicopters, Rock Solid Industries, Coastal Restoration Society (CRS) Qualified Environmental & Archeological Professional: Golder Field Work Management: BNC Industrial</p> | <ul style="list-style-type: none"> • Waste will be staged and sorted • Legal owners will be notified • Metals will be salvaged or recycled • Unsalvageable waste will be sent to landfills under proper disposal protocols • See Appendix A Waste Management Strategic Plan |

Nicola River Response Action Plan

| Work completed prior week | Upcoming work to be completed |
|--|---|
| <ul style="list-style-type: none">• Area is under a heat warning, ongoing assessments by field supervision and crews on field work;• Complete bird sweeps;• Completed removal of LG rial bridge abutments at NR-80; and• Continued with debris removal<ul style="list-style-type: none">○ Jersey barriers (NR-71)○ Misc. large debris (NR-70)○ Truck and other red car part | <p>Work to be completed this week:</p> <ul style="list-style-type: none">• Continue to monitor bird nesting;• Continue with misc debris removal at NR-70 and NR-71;• Commence removal of various culverts in water (NR-78, 79);• Commence removal of various metal objects, horse trailer and other medium sized debris (NR-86, 88);• Continue to monitor heat warning; and• Restart debris removal at NR-105 once monitors are in place. <p>Upcoming work:</p> <ul style="list-style-type: none">• Commence debris removal at:<ul style="list-style-type: none">○ NR-92: red object in water;○ NR-97: shed, culvert, etc.;○ NR-98: Metal frame, metal debris, cable spool;○ NR-99: barrel, cars, industrial material; and○ Linear debris removal. |
| <p>Relevant contacts</p> <p>Contact for Contractors questions: kirandeep.dhillon@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca</p> | |

Nicola River Field Progress



Debris removal at Nicola River



Car removed at Nicola River



Breaking and loading out concrete at NR-80

Nicola River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|-------------|--------------|
| NR-28 | NI_28.7 | Cars, furniture and industrial parts | Human-made | Identified | TBD |
| NR-55 | N/A | Black pipe in river | Human-made | Identified | TBD |
| NR-69 | NI_2.7 | Shed | Human-made | Identified | TBD |
| NR-70 | NI_3.33 | Sheet Metal | Human-made | In Progress | TBD |
| NR-71 | NI_4.97 | Jersey barriers(3) | Human-made | In Progress | TBD |
| NR-72 | NI_7.9 | Vehicle-under water-suspected blue dump truck | Human-made | Removed | 2022-07-26 |
| NR-73 | NI_8.7 | Bridge-rail visible in gravel bar | Human-made | Identified | TBD |
| NR-74 | NI_9 | Power pole on bank-wire across hwy 8 | Human-made | Identified | TBD |
| NR-75 | NI_9.3_9.4 | Asphalt road section in river | Human-made | Identified | TBD |
| NR-76 | | Deleted and combined with NR-75 | | | |
| NR-77 | NI_10.9_3 | 3 culverts + road debris | Human-made | Identified | TBD |
| NR-78 | NI_17.2_2 | Culvert x 2 | Human-made | Identified | TBD |
| NR-79 | NI_17.6 | Culvert in water | Human-made | Identified | TBD |
| NR-80 | NI_25 | LG Rail Bridge abutments in river(Shackan) | Human-made | Removed | 2022-07-28 |
| NR-81 | NI_31 | Culvert | Human-made | Identified | TBD |
| NR-82 | NI_32.13 | KVR bridge abutments(Fx ranch) | Human-made | Identified | TBD |
| NR-83 | NI_33.9 | Unknown structure | Human-made | Identified | TBD |
| NR-84 | NI_38.2 | Culvert | Human-made | Identified | TBD |
| NR-85 | NI_43.1_43.4 | Culvert, fish ladder and green tank lid | Human-made | Identified | TBD |
| NR-86 | NI_46.85_47 | Embedded metal in gravel bar, horse trailer | Human-made | Identified | TBD |
| NR-87 | | Deleted and combined with NR-86 | | | |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

Nicola River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|--|------------|---|--------------|
| NR-88 | NI_47.5 | Tire, lumber and fence posts | Human-made | Identified | TBD |
| NR-89 | NI_51.4 | Red object in water | Human-made | Removed | 2022-08-03 |
| NR-90 | NI_52.0 | Truck + other red car part | Human-made | Removed | 2022-07-27 |
| NR-91 | NI_53.9 | Metal Frame | Human-made | Identified | TBD |
| NR-92 | NI_64.24 | Red object in water | Human-made | Identified | TBD |
| NR-93 | NI_71.25 | Farm equipment in river | Human-made | Identified | TBD |
| NR-94 | N/A | Submerged car | Human-made | Identified | TBD |
| NR-95 | NI_2.4 | Metal + pump house, wood Box and red fence | Human-made | Identified | TBD |
| NR-96 | NI_6.95 | Stranded vehicles | Human-made | Identified | TBD |
| NR-97 | NI_11.3 | Shed, culvert, blue pipe and unknown debris | Human-made | Identified | TBD |
| NR-98 | NI_18.7 | Metal frame, metal debris and cable spool | Human-made | Identified | TBD |
| NR-99 | NI_24.7 | Blue Barrel, cars, furniture and industrial material | Human-made | Identified | TBD |
| NR-100 | NI_31.1 | Metal road sign pole and metal roof pieces | Human-made | Identified | TBD |
| NR-101 | NI_40 | Farm equipment, black fridge and sheet metal | Human-made | Identified | TBD |
| NR-102 | | Deleted and combined with NR-85 | | | |
| NR-103 | NI_56.6 | Metal debris, furniture and tires | Human-made | Identified | TBD |
| NR-104 | NI_60.05 | Pipes, metal and wood debris | Human-made | Identified | TBD |
| NR-105 | NI_69.88 | Hot water tank, furniture, tires, metal and shopping carts | Human-made | Paused (work will restart once monitors are in place) | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.



02

Coldwater
River:
Highway 5

Coldwater River - Highway 5

OVERVIEW

| Work objectives | Community discussions status | Known debris | Permits status |
|--|---|---|---|
| <ol style="list-style-type: none"> 1. Remove human made debris and any natural debris causing threat to either public safety or infrastructure. 2. Preserve cultural and historically significant areas. | <p>Ongoing communication with the bands and local authorities as the project planning progresses on specific operational matters.</p> <p>Recurring biweekly project update call with all local authorities and First Nations groups in the area scheduled for Thursday at 1:05pm. Representatives from the following groups are invited:</p> <ul style="list-style-type: none"> ● Coldwater IB ● Cooks Ferry IB ● Lower Nicola IB ● Upper Nicola IB ● Lytton IB ● Nicomen IB ● Nooiatch IB ● Shackan IB ● City of Merritt ● Thompson Nicola Regional District <p>s.</p> | <p>69 debris sites identified in total</p> <p>Phase 1 (see Appendix D)</p> <ul style="list-style-type: none"> ● 34 debris sites have removal completed; ● 8 have been assessed and concluded not to be removed; <p>Phase 2</p> <ul style="list-style-type: none"> ● 7 sites have removal completed; ● 3 sites as work in progress ● 1 have been assessed and concluded not to be removed; ● 16 additional sites identified. | <p>Permit applications for Phase 2 work submitted to FOR and DFO on Jun 15.</p> <p>Phase 1 permits included:</p> <ul style="list-style-type: none"> ● ARC Heritage Investigation Permit 2021-0453; NOI was issued Feb 28; ● FOR Approval A3006975 issued for Feb 14; and ● DFO Authorization issued Feb 14 under Approval 22-HPAC-00156; and ● Juliet Creek FOR approval issued Mar 7 under Approval A3007002 <p>Phase 2 permits include</p> <ul style="list-style-type: none"> ● DFO Authorization issued July 18,2022.,Approval 22-HPAC-00816. FOR Approval A3006975 appended July 18 ,2022. |

Coldwater River



Coldwater River



Coldwater River

CW73. Blue barrels, green metal and scrap tin metal



CW55 Steel Trailer frame



CW39. Metal objects



CW73. Blue barrels, green metal and scrap tin metal



CW61. Green roof piece + other metal piece



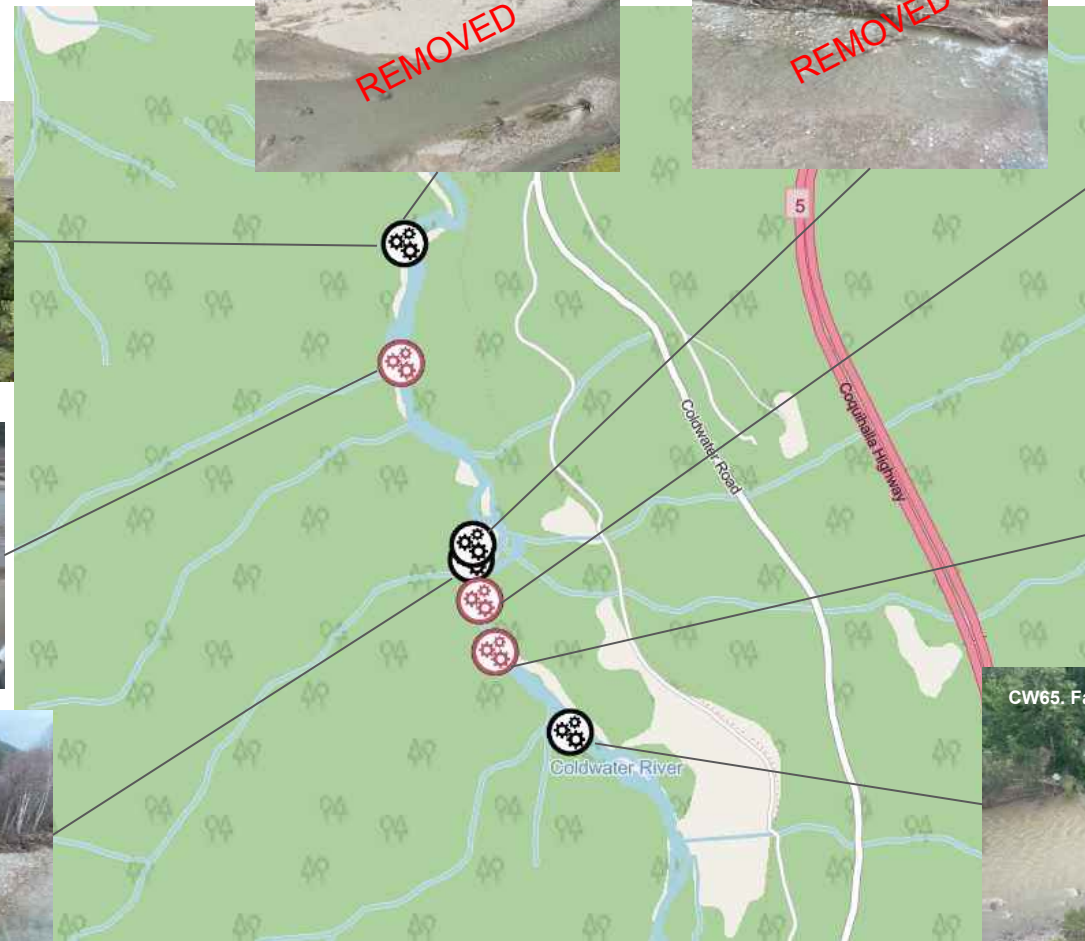
CW59. Green roof piece



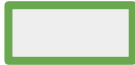
CW56. Culvert on farm bank



CW65. Farm equipment in stream



Coldwater River



Denotes a new item on this week's report.



CW66. Concrete abutment



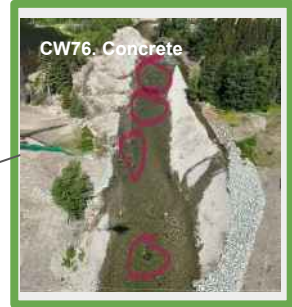
CW60. Shed and exposed line in Water



CW74. Blue barrel and metal box



CW75. Yellow and blue barrels



CW76. Concrete



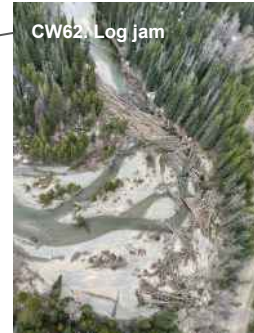
CW67. Access mat in channel



Coldwater River



CW68. Culvert on gravel bar



CW62. Log jam

Coldwater River Response Action Plan

| Action plan for post-freshet work | Estimated timeline for removal |
|--|--|
| <ul style="list-style-type: none"> • Debris will be assessed and human made debris that poses a high risk will be prioritized • Linear debris removal crews will be utilized for small anthropogenic debris • Helicopters will be utilized to support debris removal • Entrance routes and staging areas for equipment and debris is being reviewed and will be communicated for each location with stakeholders prior to mobilization into each work area • Where bridge piece dismantling will specialised equipment, including cranes and cutting torches • Once debris has been removed from the waterway, contractors will follow waste management plans • Crews will stop work if human remains are found or unanticipated archaeological sites are discovered • Natural debris will be reviewed by QP, DFO and FOR to determine if it poses a threat to public safety and/or infrastructure | <ul style="list-style-type: none"> • Dates are still being assessed and debris removal has commenced in the Coldwater River on July 19; below are initial dates and are subject to change as assessment are completed: <ul style="list-style-type: none"> ○ CW-74: in progress ○ CW-72: week of Aug 8 ○ CW-5: week of Aug 15 ○ CW-53: week of Aug 15 ○ CW-66: on hold • Additional dates to be provided in future reports. |
| Contractors involved | Waste management process |
| <p>Debris removal: Arnett & Burgess (A&B), Quattro Constructors, Valley Helicopters, Rock Solid Industries, Coastal Restoration Society (CRS) Qualified Environmental & Archeological Professional: Golder Field Work Management: BNC Industrial</p> | <ul style="list-style-type: none"> • Waste will be staged and sorted • Metals will be salvaged or recycled • Unsalvageable waste will be sent to landfills under proper disposal protocols • See Appendix A Waste Management Strategic Plan |

Coldwater River Response Action Plan

| Work completed prior week | Upcoming work to be completed |
|--|---|
| <ul style="list-style-type: none">• Area is under a heat warning, ongoing assessments by field supervision and crews on field work;• Complete bird sweeps;• Continued with misc debris removal;• Removed:<ul style="list-style-type: none">○ CW-49: door○ CW-55: steel trailer frame○ CW-56: culvert○ CW-32: completed removal of farm equipment○ CW-73: blue barrels, green metal and various scraps | <p>Work to be completed this week:</p> <ul style="list-style-type: none">• Continue to monitor bird nesting;• Continue with debris removal;<ul style="list-style-type: none">○ CW-74: blue barrel and metal box• Continue with linear debris removal;• Mobilize and commence debris removal at CW-72• Continue to identify any new debris as river levels continue to decline; and• Monitor heat wave warning. <p>Upcoming work:</p> <ul style="list-style-type: none">• Commence debris removal at:<ul style="list-style-type: none">○ CW-5: pipe, metal sheets○ CW-53: various metal in river |
| Relevant contacts | |
| Contact for Contractors questions: kirandeep.dhillon@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca | |

Coldwater River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|------------|--------------|
| CW-5 | CW_5.3 | Pipe, metal sheets | Human-made | Identified | TBD |
| CW-39 | CW_31.3_31.4 | Metal objects | Human-made | Identified | TBD |
| CW-44 | CW_25.9 | Culvert and other concrete pieces | Human-made | Identified | TBD |
| CW-49 | CW_0.7 | Door midchannel | Human-made | Removed | 2022-08-03 |
| CW-50 | CW_1.0 | Small debris jam mid-channel | Human-made | Identified | TBD |
| CW-51 | CW_1.5 | Concrete structure in channel | Human-made | Identified | TBD |
| CW-52 | CW_14.9 | Boat or sled piece | Human-made | Identified | TBD |
| CW-53 | CW_15.3 | White metal in water | Human-made | Identified | TBD |
| CW-54 | CW_27.0 | Camper | Human-made | Removed | 2022-07-19 |
| CW-55 | CW_31.1 | Steel Trailer frame | Human-made | Removed | 2022-08-03 |
| CW-56 | CW_31.2 | Culvert on farm bank | Human-made | Removed | 2022-08-03 |
| CW-57 | N/A | Deleted, was a duplicate of CW-39 | | | |
| CW-58 | N/A | Deleted, was a duplicate of CW-39 | | | |
| CW-59 | CW_31.6 | Green roof piece | Human-made | Identified | TBD |
| CW-60 | CW_37.6 | Shed and exposed line in Water- Land Owner - to be reassessed after flood | Human-made | Identified | TBD |
| CW-61 | CW_39.2 | Green roof piece + other metal piece | Human-made | Identified | TBD |
| CW-62 | CW_64_64.9 | Log jam | Natural | Identified | TBD |
| CW-63 | N/A | Deleted and combined with CW-62 | | | |
| CW-64 | N/A | Deleted, was a duplicate of CW-69 | | | |
| CW-65 | CW_32 | Farm equipment in stream | Human-made | Removed | 2022-08-03 |
| CW-66 | CW_51.3 | Concrete abutment | Human-made | Identified | TBD |
| CW-67 | CW_62.8 | Access mat in channel | Human-made | Identified | TBD |
| CW-68 | CW_63.0 | Culvert on gravel bar | Human-made | Identified | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

Coldwater River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|-------------|--------------|
| CW-69 | CW_0.3 | Culvert on bank | Human-made | Removed | 2022-07-27 |
| CW-70 | | Deleted, was a duplicate of CW-5 | | | |
| CW-71 | CW_9.0 | Culvert | Human-made | Identified | TBD |
| CW-72 | CW_23.0 | Culvert and blue barrels | Human-made | Identified | TBD |
| CW-73 | CW_29.8 | Blue barrels, green metal and scrap tin metal | Human-made | Removed | 2022-08-03 |
| CW-74 | CW_33.35 | Blue barrel and metal box | Human-made | In Progress | TBD |
| CW-75 | CW_60 | Yellow and blue barrels | Human-made | Identified | TBD |
| CW-76 | N/A | Concrete | Human-made | Identified | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.



03

Thompson River

Thompson River

| OVERVIEW | | | |
|--|--|--|---|
| Work objectives | Community discussions status | Known debris | Permits status |
| <ol style="list-style-type: none"> 1. Remove human made debris and any natural debris causing threat to either public safety or infrastructure 2. Preserve cultural and historically significant areas | <p>Ongoing communication with the bands and local authorities as the project planning progresses on specific operational matters.</p> <p>Recurring biweekly project update call with all local authorities and First Nations groups in the area scheduled for Thursday at 1:05pm. Representatives from the following groups are invited:</p> <ul style="list-style-type: none"> ● Cooks Ferry IB ● Lytton IB ● Nicomen IB | <p>12 debris sites identified in total</p> <p>Phase 1 (see Appendix D)</p> <ul style="list-style-type: none"> ● 6 debris sites have removal completed <p>Phase 2</p> <ul style="list-style-type: none"> ● 6 sites remaining as work identified and paused due to water levels. | <p>Golder is continuing to identify permit needs for Phase 2 anthropogenic debris removal. Permit applications are to be submitted once water levels decrease and updated debris locations are confirmed.</p> <p>Phase 1 permits included:</p> <ul style="list-style-type: none"> ● ARC Heritage Investigation Permit 2021-0453; NOI was issued Feb 28; ● FOR Approval A3007030 issued for Apr 15; and ● DFO Authorization issued Apr 11 under Approval 22-HPAC-00305. |

Thompson River



Thompson Response Action Plan

| Action plan for post-freshet work | Estimated timeline for removal |
|---|--|
| <ul style="list-style-type: none"> ● Debris will be assessed and human made debris that poses a high risk will be prioritized ● Linear debris removal crews will be utilized for small anthropogenic debris ● Helicopters will be utilized to support debris removal ● Entrance routes and staging areas for equipment and debris is being reviewed and will be communicated asap ● Once debris has been removed from the waterway, contractors will follow waste management plans ● Crew will stop work if human remains are found or unanticipated archaeological sites are discovered ● Natural debris will be reviewed by QP, DFO and FOR to determine if it poses a threat to public safety and/or infrastructure | <ul style="list-style-type: none"> ● Updated timelines will be provided in future reports; ● Additional debris may be found, identified and reported in future reports as reconnaissance flights are completed over the watercourse and assessing any new debris identified from freshet |
| Contractors involved | Waste management process |
| <p>Debris removal: Arnett & Burgess (A&B), Quattro Constructors, Valley Helicopters Qualified Environmental & Archeological Professional: Golder Field Work Management: BNC Industrial</p> | <ul style="list-style-type: none"> ● Waste will be staged and sorted ● Legal owners will be notified ● Metals will be salvaged or recycled ● Unsalvageable waste will be sent to landfills under proper disposal protocols ● See Appendix A Waste Management Strategic Plan |

Thompson Response Action Plan

| Work completed prior week | Upcoming work to be completed |
|--|--|
| <ul style="list-style-type: none">Continued monitoring watercourse; andContinued with planning. | <p>Work to be completed this week:</p> <ul style="list-style-type: none">Continue with debris assessments as water levels drop. <p>Upcoming work:</p> <ul style="list-style-type: none">Commence debris removal and linear debris removal. |
| Relevant contacts | |
| <p>Contact for Contractors questions: kirandeep.dhillon@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca</p> | |

Thompson River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|------------|--------------|
| THR-5 | N/A | Pieces of wood in and on the banks of the river | Natural | Identified | TBD |
| THR-6 | N/A | Wood and paper scraps on banks. | Natural | Identified | TBD |
| THR-9 | TR_3.15 | Lumber, pallets, plywood, wood panels | Human-made | Identified | TBD |
| THR-10 | TR_11.91 | Wooden object (furniture) | Human-made | Identified | TBD |
| THR-11 | TR_14.33 | Lumber, plywood, pallets, building pieces | Human-made | Identified | TBD |
| THR-12 | TR_25.60 | White debris edge water | Human-made | Identified | TBD |

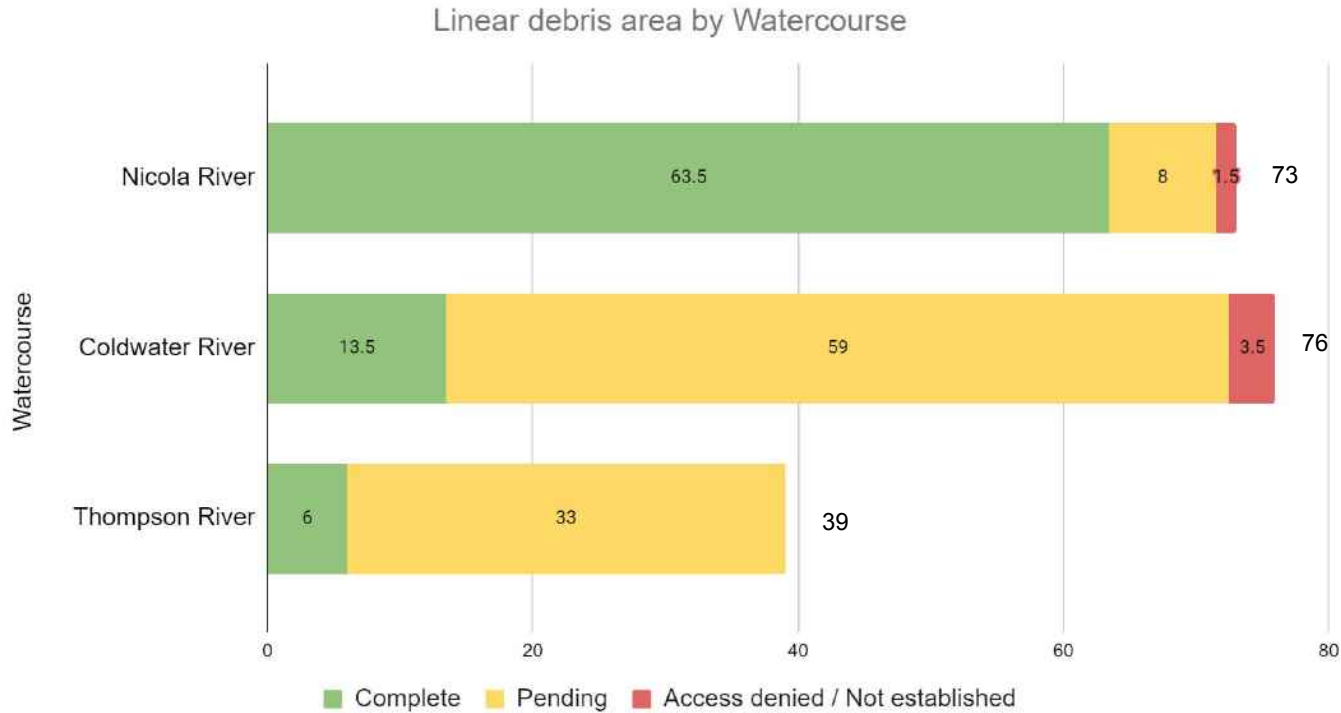
* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.



04

Merritt
Region
Linear
Debris
Removal

Linear Debris Progress in KMs - Merritt Region



| |
|---|
| Total KMs 188 |
| Complete 83 |
| Pending 100 |
| Access denied / Not established 5 |

Linear Debris Progress - Merritt Region

| Work completed prior week | Upcoming work to be completed |
|--|--|
| <ul style="list-style-type: none">• Area is under a heat warning, ongoing assessments by field supervision and crews on field work• Continued with survey along Coldwater River• Continued with debris removal along Coldwater River• Continued with planning for Nicola and Thompson River linear debris removal | <p>Work to be completed this week:</p> <ul style="list-style-type: none">• Continue with debris removal at Coldwater CW_0.0 to CW_40.0• Continue with planning for NI_0.0 to NI_73.0• Continue with planning for TH_0.0 to TH_39.0. |
| Relevant contacts | |
| <p>Contact for Contractors questions: kirandeep.dhillon@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca</p> | |



05

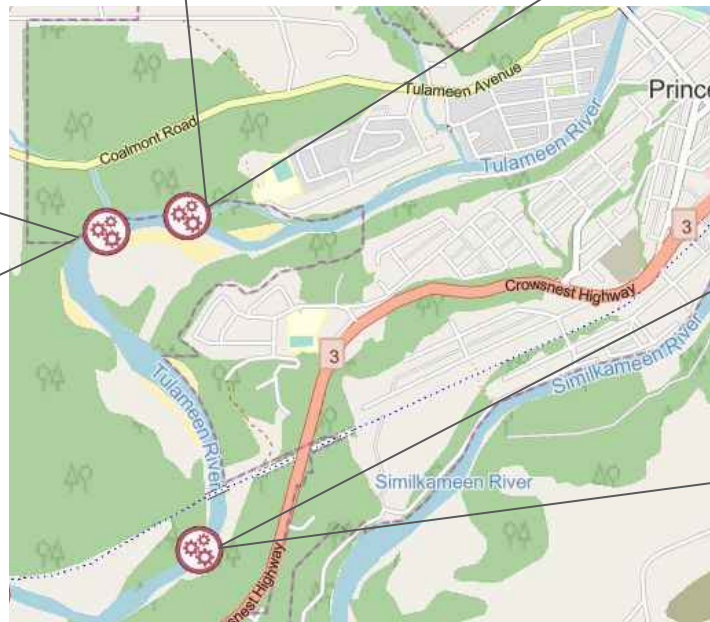
Tulameen River

Tulameen River

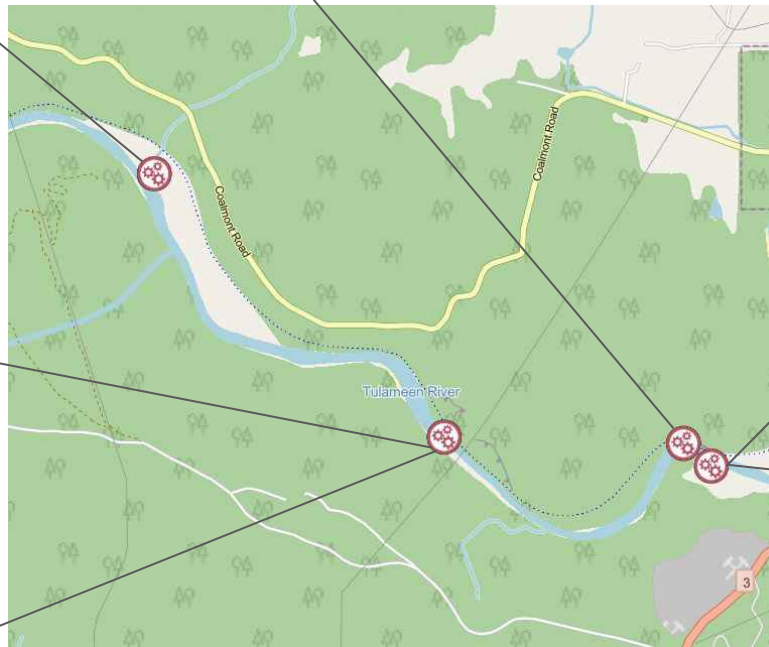
Overview

| Work objectives | Community discussions status | Known debris | Permits status |
|--|--|---|--|
| <ol style="list-style-type: none"> 1. Remove human made debris and any natural debris causing threat to either public safety or infrastructure. 2. Preserve cultural and historically significant areas. | <p>Ongoing communication with both Upper Similkameen IB (USIB) and Lower Similkameen IB (LSIB), Regional District of Okanagan-Similkameen, town of Princeton and Tulameen fire department.</p> <p>Recurring project update call with all local authorities and First Nations groups in the area scheduled every second Thursday at 3.05pm. Representatives from the following groups are invited:</p> <ul style="list-style-type: none"> • Lower Similkameen IB • Upper Similkameen IB • Town of Princeton • Regional District of Okanagan • Tulameen Fire Dept | <p>93 debris sites identified in total</p> <p>Phase 1 (see Appendix D)</p> <ul style="list-style-type: none"> • 34 debris sites have removal completed; and • 17 have been assessed and concluded not to be removed <p>Phase 2</p> <ul style="list-style-type: none"> • 42 sites identified for removal. | <p>Tetra Tech has submitted the DFO permit for Phase 2 anthropogenic debris. FOR has conditionally extended to Oct 15 for instream work outside of the fish timing window (Aug 7 - Oct 15).</p> <p>Phase 1 permits included:</p> <ul style="list-style-type: none"> • ARC Heritage Investigation Permit 2021-0453; NOI was issued Feb 28; • FOR Approval A8006163 issued for Feb 11 and permit extension issued Apr 14; and • DFO Authorization issued Feb 7 under Approval 22-HPAC-00125. <p>Phase 2 permits included</p> <ul style="list-style-type: none"> • DFO Authorization issued July 18, 2022 22-HPAC-00766 |

Tulameen River



Tulameen River



Tulameen River

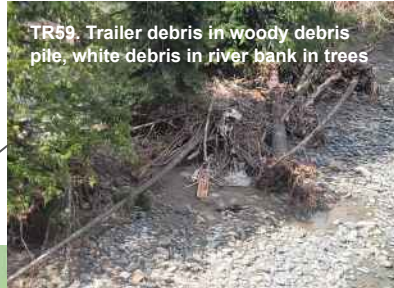


TR61. Cardboard and metal stuck in woody debris



TR60. Plywood in woody debris

TR96. Unknown debris (photo upcoming)



TR59. Trailer debris in woody debris pile, white debris in river bank in trees



TR58. Jersey barrier, piece of RV trailer and small scattered debris



TR57. Culvert right side



TR56. Small white plastic on bank left side

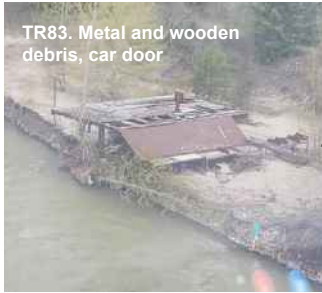
Tulameen River



Tulameen River



Tulameen River



Tulameen River

TR87. Several pieces of debris in woody debris, log stack



TR86. Metal debris, cardboard box, metal item, plastic tank, white debris



TR86. Metal debris, cardboard box, metal item, plastic tank, white debris



TR85. Woody Debris, white object, white plastic



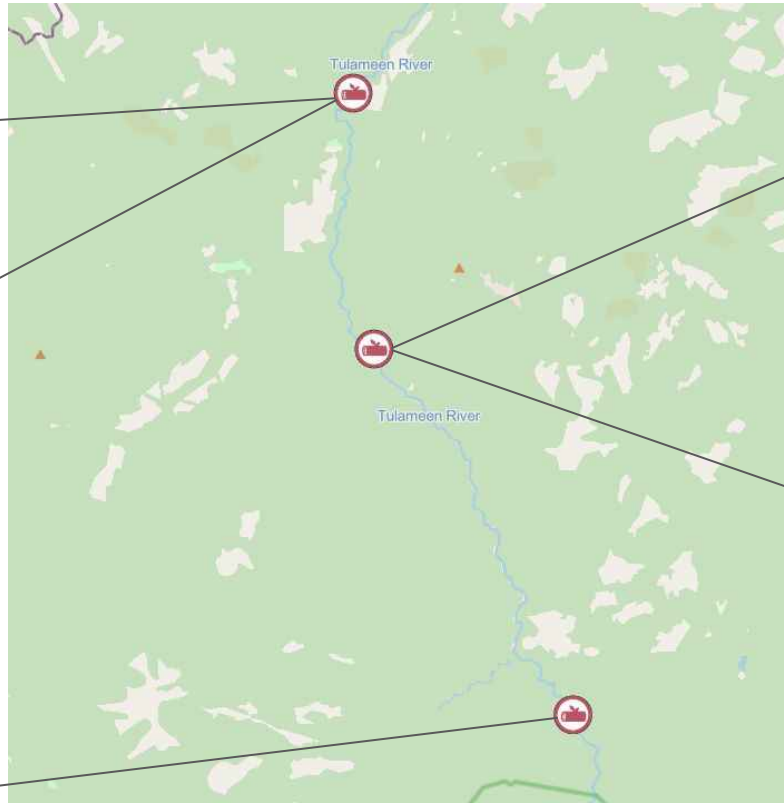
TR84. Log stacks and woody debris



Tulameen River



Tulameen River



Tulameen River Response Action Plan

| Action plan for post-freshet work | Estimated timeline for removal |
|---|---|
| <ul style="list-style-type: none"> ● Develop site specific debris removal work plans and engage with LSIB and USIB to assist with sequence/scheduling of work. ● TetraTech to review site specific plans and provide direction re access and biological mitigation measures (as per the Section 11 permit extension) ● TetraTech to assess natural debris to determine if it poses a threat to public safety and/or infrastructure. ● Identify entrance routes and staging areas for equipment and debris planning and ensure all necessary access agreements are in place ● Once debris has been removed from the waterway, contractors will follow waste management plans ● Crew will stop work if human remains are found or unanticipated archaeological sites are discovered ● Discussions ongoing with USIB and LSIB for subcontractors and professional resources | <ul style="list-style-type: none"> ● TR-44 is in the vicinity of Ochre Bluff, still assessing and in discussions with USIB and LSIB; ● Dates are still being assessed and debris removal will commence in the Tulameen River on Aug 8; below are initial dates and are subject to change as assessment are completed: <ul style="list-style-type: none"> ○ TR-87, 88, 89: week of Aug 8 ○ TR-91, 92: week of Aug 8 ○ TR-91: week of Aug 16 ○ TR-86: week of Aug 19 ● Additional dates to be provided in future reports. |
| Contractors involved | Waste management process |
| <p>Debris removal: Multiple local contractors Qualified Environmental & Archeological Professional: TetraTech Field Work Management: Clearview Demolition</p> | <ul style="list-style-type: none"> ● Waste will be staged and sorted ● Legal owners will be notified ● Metals will be salvaged or recycled ● Unsalvageable waste will be sent to landfills under proper disposal protocols ● See Appendix A Waste Management Strategic Plan |

Tulameen River Response Action Plan

| Work completed prior week | Upcoming work to be completed |
|--|--|
| <ul style="list-style-type: none">• Area is under a heat warning, ongoing assessments by field supervision and crews on field work;• Continued with scouting of river as levels have dropped;• Continued with determining access; and• Continued with planning. | <p>Work to be completed this week:</p> <ul style="list-style-type: none">• Continue with planning;• Continue scouting for additional debris and access;• Continue to identify any new debris as river levels continue to decline;• Commence debris removal for Phase 2 at:<ul style="list-style-type: none">◦ TR-87, 88, 89: metal, woody debris, medium sized debris• Monitor heat wave warning. <p>Upcoming work:</p> <ul style="list-style-type: none">• TR-87 human made debris tangled in log stack• TR-91 concrete lock blocks starting week of Aug 16• TR-86 metal debris, cardboard box, metal items, plastic tank, misc. debris starting week of Aug 19 |
| Relevant contacts | |
| <p>Contact for Contractors questions: kirandeep.dhillon@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca</p> | |

Tulameen River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|-----------------------|--|------------|------------|--------------|
| TR-44 | N/A | Pole like objects beside river | Human-made | Identified | TBD |
| TR-53 | | Deleted, was a duplicate of TR-57 | | | |
| TR-54 | TU_2.7_2.8 | Metal/Plastic Debris in woody debris | Human-made | Identified | TBD |
| TR-55 | | Deleted and combined with TR-54 | | | |
| TR-56 | TU_9.2 | Small white plastic on bank left side | Human-made | Identified | TBD |
| TR-57 | TU_10.8 | Culvert right side | Human-made | Identified | TBD |
| TR-58 | TU_15.9 | Jersey barrier, piece of RV trailer and small scattered debris | Human-made | Identified | TBD |
| TR-59 | TU_16.3 | Trailer debris in woody debris pile, white debris in river bank in trees | Human-made | Identified | TBD |
| TR-60 | TU_16.35 | Plywood in woody debris | Human-made | Identified | TBD |
| TR-61 | TU_16.85 | Cardboard and metal stuck in woody debris | Human-made | Identified | TBD |
| TR-62 | TU_17.0_17.1 | Debris in silt on rivers edge, metal bar | Human-made | Identified | TBD |
| TR-63 | | Deleted and combined with TR-62 | | | |
| TR-64 | TU_17.375 | Metal debris in trees in riparian area | Human-made | Identified | TBD |
| TR-65 | TU_17.5_17.7 | Tarp, metal and other debris | Human-made | Identified | TBD |
| TR-66 | | Deleted and combined with TR-65 | | | |
| TR-67 | TU_17.875_17.95_18.75 | White debris on rocks, blue tarp, metal | Human-made | Identified | TBD |
| TR-68 | | Deleted and combined with TR-67 | | | |
| TR-69 | TU_18.5 | Red debris on rivers edge | Human-made | Identified | TBD |
| TR-70 | TU_18.55 | Potential trailer or metal debris on rivers edge | Human-made | Identified | TBD |
| TR-71 | TU_18.6 | Plastic debris on rivers edge or white metal | Human-made | Identified | TBD |
| TR-72 | | Deleted and combined with TR-67 | | | |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

Tulameen River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|------------|--------------|
| TR-73 | TU_19 | White debris on river bank in trees | Human-made | Identified | TBD |
| TR-74 | TU_19.3 | Stripped car up on bank in trees | Human-made | Identified | TBD |
| TR-75 | TU_17.20 | Tire in river | Human-made | Identified | TBD |
| TR-76 | TU_19.5 | Camper door stuck on woody debris | Human-made | Identified | TBD |
| TR-77 | TU_19.6 | Car bumper in woody debris | Human-made | Identified | TBD |
| TR-78 | TU_19.9 | Debris in wooded area | Human-made | Identified | TBD |
| TR-79 | TU_3.00 | Green box, small debris, culvert, yellow plastic | Human-made | Identified | TBD |
| TR-80 | TU_4.10 | Tarps, tire, blankets and other small debris | Human-made | Identified | TBD |
| TR-81 | TU_5.30 | Tires, metal debris, culvert | Human-made | Identified | TBD |
| TR-82 | TU_7.00 | Small culvert, plastic, metal and woody debris, propane tank | Human-made | Identified | TBD |
| TR-83 | TU_21.60 | Metal and wooden debris, car door | Human-made | Identified | TBD |
| TR-84 | TU_23.20 | Log stacks and woody debris | Human-made | Identified | TBD |
| TR-85 | TU_24.10 | Woody Debris, white object, white plastic | Human-made | Identified | TBD |
| TR-86 | TU_27.00 | Metal debris, cardboard box, metal item, plastic tank, white debris | Human-made | Identified | TBD |
| TR-87 | TU_28.65 | Several pieces of debris in woody debris, log stack | Human-made | Identified | TBD |
| TR-88 | TU_29.75 | Metal and woody debris | Human-made | Identified | TBD |
| TR-89 | TU_30.20 | Log stack, white pipe, metal pipe, green pipe | Human-made | Identified | TBD |
| TR-90 | TU_31.00 | Woody debris , log piles | Human-made | Identified | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

Tulameen River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|------------|--------------|
| TR-91 | TU_33.20 | Concrete Lock Blocks | Human-made | Identified | TBD |
| TR-92 | TU_35.30 | Barrel in flood plain | Human-made | Identified | TBD |
| TR-93 | TU_52.07 | Log jam in River | Human-made | Identified | TBD |
| TR-94 | TU_58.10 | Log jam in River | Human-made | Identified | TBD |
| TR-95 | TU_67.00 | Log jam in River | Human-made | Identified | TBD |
| TR-96 | TU_13.31 | Unknown debris | Human-made | Identified | TBD |
| TR-97 | TU_20.00 | Tarp buried in silt | Human-made | Identified | TBD |
| TR-98 | TU_21.10 | Propane tank and other debris in flood plain in woods | Human-made | Identified | TBD |
| TR-99 | TU_21.40 | Tire on river bank | Human-made | Identified | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.



06

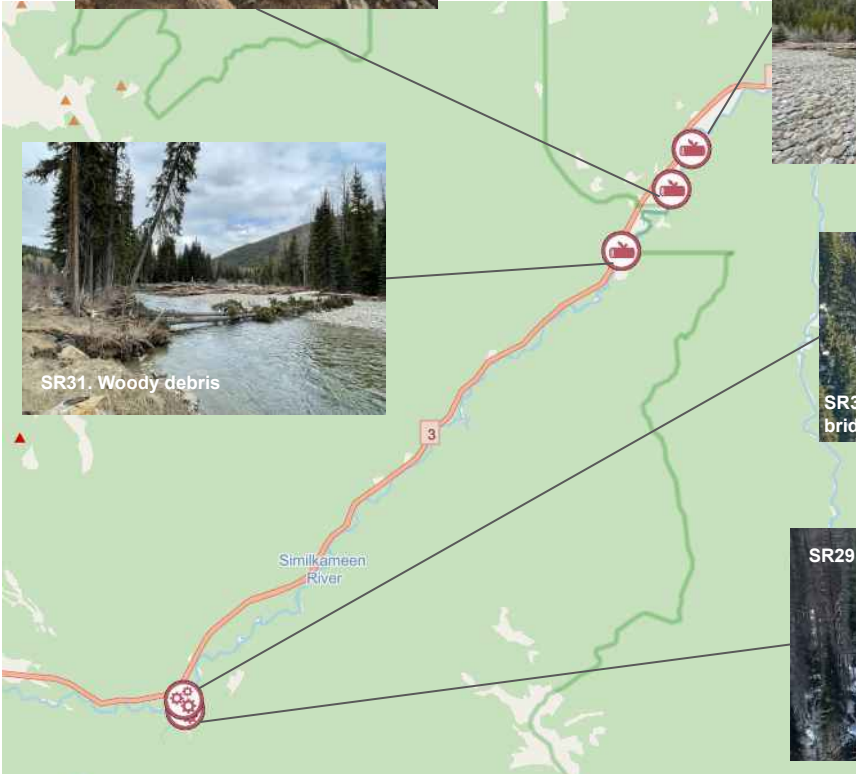
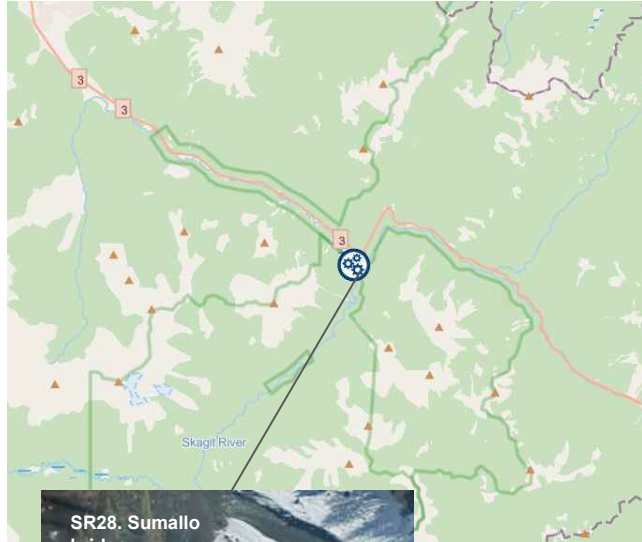
Similkameen River

Similkameen River

OVERVIEW

| Work objectives | Community discussions status | Known debris | Permits status |
|---|---|---|--|
| <ol style="list-style-type: none"> 1. Remove human made debris and any natural debris causing threat to either public safety or infrastructure. 2. Preserve cultural and historically significant areas | <p>Ongoing communication with both Upper Similkameen IB (USIB) and Lower Similkameen IB (LSIB) as the planning of the project moves forward. Also communicating with Regional District of Okanagan-Similkameen and town of Princeton.</p> <p>Recurring project update call with all local authorities and First Nations groups in the area scheduled every second Thursday at 3.05pm. Representatives from the following groups are invited:</p> <ul style="list-style-type: none"> • Lower Similkameen IB • Upper Similkameen IB • Town of Princeton • Regional District of Okanagan • Tulameen Fire Department | <p>53 debris sites identified in total</p> <p>Phase 1 (see Appendix D)</p> <ul style="list-style-type: none"> • 13 debris sites have removal completed; and • 9 have been assessed and concluded not to be removed <p>Phase 2</p> <ul style="list-style-type: none"> • 1 site has removal completed; • 1 site has been assessed and concluded not to be removed; • 5 sites are work in progress; and • 24 sites are identified. | <p>Tetra Tech has submitted the DFO permit for Phase 2 anthropogenic debris, permit expected week of Jul 18. FOR has conditionally extended to Oct 15 for instream work outside of the fish timing window (Aug 7 - Sep 30).</p> <p>Phase 1 permits included:</p> <ul style="list-style-type: none"> • ARC Heritage Investigation Permit 2021-0453; NOI was issued Feb 28; • FOR Approval A8006162 issued for Feb 11 and permit extension issued Apr 14; and • DFO Authorization issued Feb 7 under Approval 22-HPAC-00125. <p>Phase 2 permits included</p> <ul style="list-style-type: none"> • DFO Authorization issued July 18, 2022 22-HPAC-00766 |

Similkameen River



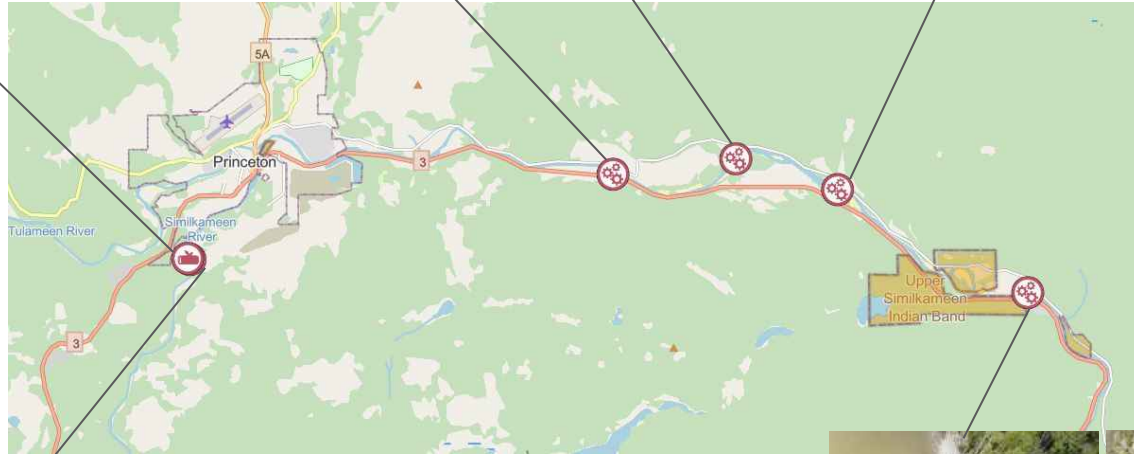
Similkameen River



SR33. Woody debris



SR34. Sheet metal, propane tank



SR53. Fridge (photo upcoming)

SR52. Tires, metal debris, hot water tank, tin, white bag (photo upcoming)



SR51. Tires, blue barrel, debris in log pile



IN PROGRESS



SR50. Tire, rubber mat, tarp, misc. Debris

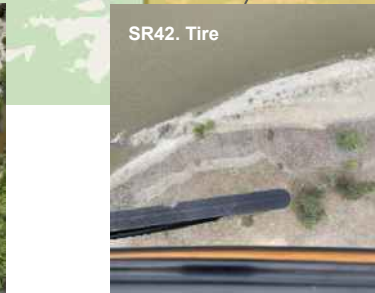


IN PROGRESS

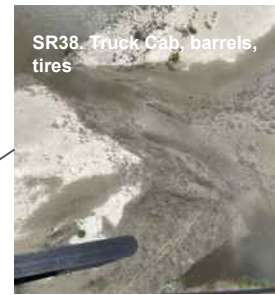
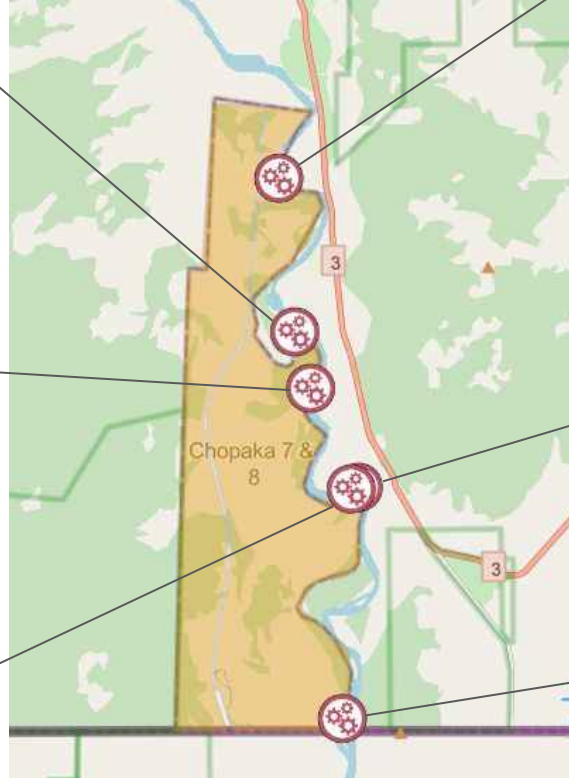
Similkameen River



Similkameen River



Similkameen River



Similkameen River Response Action Plan

| Action plan | Estimated timeline for removal |
|---|--|
| <ul style="list-style-type: none"> ● Identify newly exposed human made debris and large woody debris deposits during/after freshet. ● Develop site specific debris removal work plans and engage with LSIB and USIB to assist with sequence/scheduling of work. ● TetraTech to review site specific plans and provide direction re access and biological mitigation measures (as per the Section 11 permit extension) ● TetraTech to assess natural debris to determine if it poses a threat to public safety and/or infrastructure. ● Identify entrance routes and staging areas for equipment and debris planning and ensure all necessary access agreements are in place ● Once debris has been removed from the waterway, contractors will follow waste management plans ● Crew will stop work if human remains are found or unanticipated archaeological sites are discovered ● Discussions ongoing with USIB and LSIB for subcontractors and professional resources | <ul style="list-style-type: none"> ● Dates are still being assessed and debris removal has commenced in the Similkameen River on Jul 22; below are initial dates and are subject to change as assessment are completed: <ul style="list-style-type: none"> ○ SR-46: in progress ○ SR-50, 51, 52 : week of Aug 8 ○ SR-53: week of Aug 15 ● Additional dates to be provided in future reports. |
| Contractors involved | Waste management process |
| <p>Debris removal: Multiple local contractors Qualified Environmental & Archeological Professional: TetraTech Field Work Management: Clearview Demolition</p> | <ul style="list-style-type: none"> ● Waste will be staged and sorted ● Legal owners will be notified ● Metals will be salvaged or recycled ● Unsalvageable waste will be sent to landfills under proper disposal protocols ● See Appendix A Waste Management Strategic Plan |

Similkameen River Response Action Plan

| Work completed prior week | Upcoming work to be completed |
|---|--|
| <ul style="list-style-type: none">• Area is under a heat warning, ongoing assessments by field supervision and crews on field work;• Continued with removal of concrete at Manning Park;• Continued with bridge removal at Manning Park; and• Continued with misc. debris removal. | <p>Work to be completed this week:</p> <ul style="list-style-type: none">• Complete bridge removal at Manning Park;• Continue with debris removal;• Continue with woody debris assessments;• Continue to identify any new debris as river levels continue to decline; and• Monitor heat wave warning. |
| Relevant contacts | |
| <p>Contact for Contractors questions: kirandeep.dhillon@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca</p> | |

Similkameen River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|--|------------|--------------------------|--------------|
| SR-19 | N/A | Blue tarp slightly buried in the sandbar | Human-made | Identified | TBD |
| SR-23 | N/A | Tarp slightly buried in the sandbar | Human-made | Identified | TBD |
| SR-24 | N/A | Blue barrels entangled in woody debris | Human-made | Identified | TBD |
| SR-25 | N/A | Overturned car | Human-made | Removed | 2022-07-27 |
| SR-26 | N/A | Truck with trailer | Human-made | Identified | TBD |
| SR-27 | N/A | Log debris | Natural | Identified | TBD |
| SR-28 | N/A | Sumallo bridge | Human-made | Concluded - Out of Scope | N/A |
| SR-29 | N/A | Chuwanten bridge | Human-made | Identified | TBD |
| SR-30 | N/A | 78-83 bridge | Human-made | Identified | TBD |
| SR-31 | N/A | Woody debris | Natural | Identified | TBD |
| SR-32 | N/A | Woody debris | Natural | Identified | TBD |
| SR-33 | N/A | Woody debris | Natural | Identified | TBD |
| SR-34 | N/A | Sheet metal, propane tank | Human-made | Identified | TBD |
| SR-35 | SR_0.20 | Fruit, boxes, lumber, debris in log pile, tires | Human-made | Identified | TBD |
| SR-36 | SR_4.50 | Blue barrels, lumber in log pile, fruit box, tin | Human-made | Identified | TBD |
| SR-37 | SR_6.90 | Apple Crates, tarps, parachute, tire, green cap | Human-made | Identified | TBD |
| SR-38 | SR_10.95 | Truck Cab, barrels, tires | Human-made | Identified | TBD |
| SR-39 | SR_20.30 | Tires | Human-made | Identified | TBD |
| SR-40 | SR_28.08 | Paddleboat, tires and misc. debris | Human-made | Identified | TBD |
| SR-41 | SR_30.74 | Debris in log pile, black pipe and tires | Human-made | Identified | TBD |
| SR-42 | SR_32.73 | Tires, barrel and white debris | Human-made | Identified | TBD |
| SR-43 | SR_37.58 | Misc. Debris, pallet | Human-made | Identified | TBD |
| SR-44 | SR_44.20 | Tires, lumber, plywood, sign | Human-made | Identified | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

Similkameen River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|-------------|--------------|
| SR-45 | SR_49.88 | Misc. Debris, blue barrel, tires, tarp | Human-made | Identified | TBD |
| SR-46 | SR_58.45 | Debris against tree, tires, car | Human-made | In Progress | TBD |
| SR-47 | SR_61.40 | Lumber on gravel bar, culvert, tires, car body | Human-made | Removed | 2022-08-02 |
| SR-48 | SR_66.30 | Debris near bank, tires | Human-made | Identified | TBD |
| SR-49 | SR_72.96 | Tarp, small debris on bank, tin | Human-made | In Progress | TBD |
| SR-50 | SR_85.70 | Tire, rubber mat, tarp, misc. Debris | Human-made | In Progress | TBD |
| SR-51 | SR_91.00 | Tires, blue barrel, debris in log pile | Human-made | In Progress | TBD |
| SR-52 | SR_93.45 | Tires, metal debris, hot water tank, tin, white bag | Human-made | In Progress | TBD |
| SR-53 | SR_96.40 | Fridge, tire tube, blue shed | Human-made | Identified | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.



07

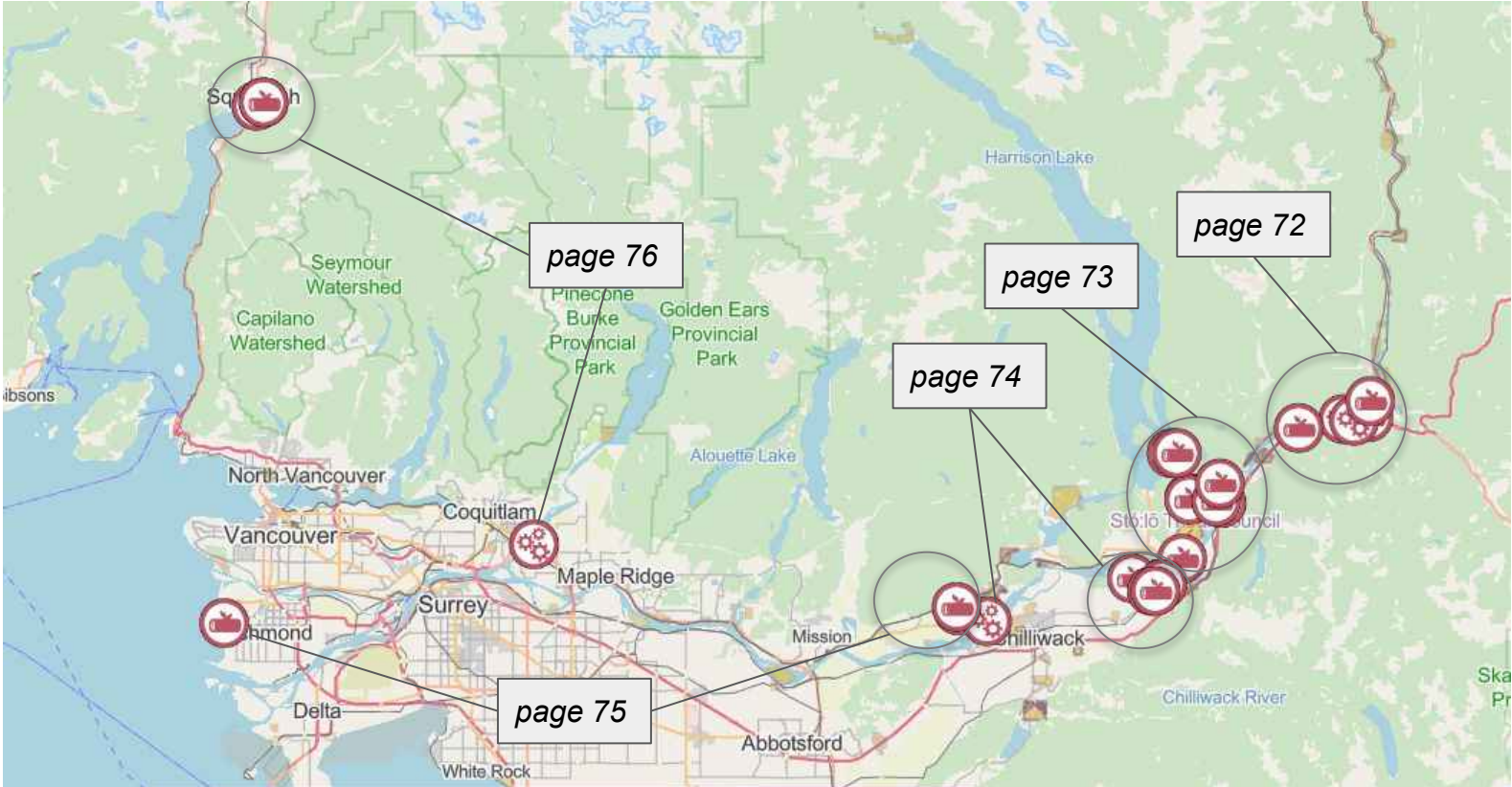
Fraser River

Fraser River

OVERVIEW

| Work objectives | Community discussions status | Known debris | Permits status |
|---|--|--|--|
| <ol style="list-style-type: none"> 1. Remove human made debris and any natural debris causing threat to either public safety or infrastructure 2. Preserve cultural and historically significant areas. | <p>Continuing to schedule calls and visits with the remaining communities based on their availability.</p> <p>Recurring biweekly project update call with all local authorities and First Nations groups in the area scheduled every Thursday at 11am.</p> | <p>Phase 1</p> <p>68 debris sites identified of which</p> <ul style="list-style-type: none"> ● 38 debris sites has removal completed; and ● 5 has been assessed and concluded not to be removed <p>Phase 2</p> <ul style="list-style-type: none"> ● 25 sites remaining , some still waiting on regulatory approval. | <p>ARC Heritage Investigation Permit 2021-0453 Issued under Section 12.2 of the Heritage Conservation Act.</p> <p>FOR approval under Section 11 of the Water Sustainability Act; Permit issued Mar 29, 2022.</p> <p>DFO Authorization under Paragraphs 34.4(2) (b) and 35(2)(b) of the Fisheries Act (Emergency Situations); Authorization issued (Approval 22-HPAC-00204) Mar 3, 2022.</p> <p>*Permits extended until September 30, 2022.</p> |

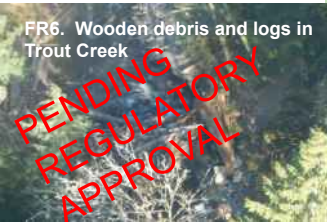
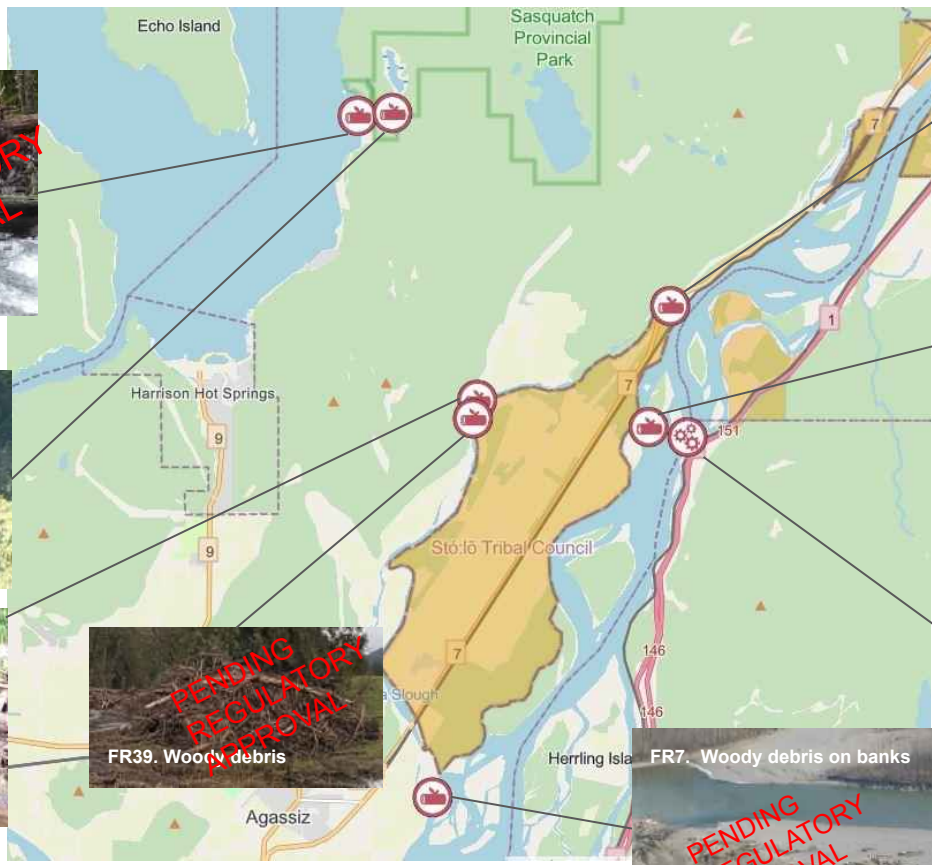
Fraser River - overall view



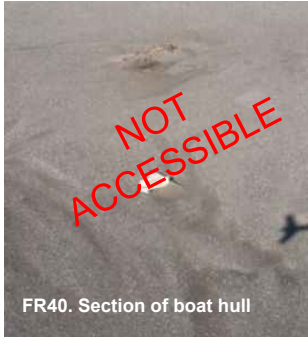
Fraser River



Fraser River



Fraser River



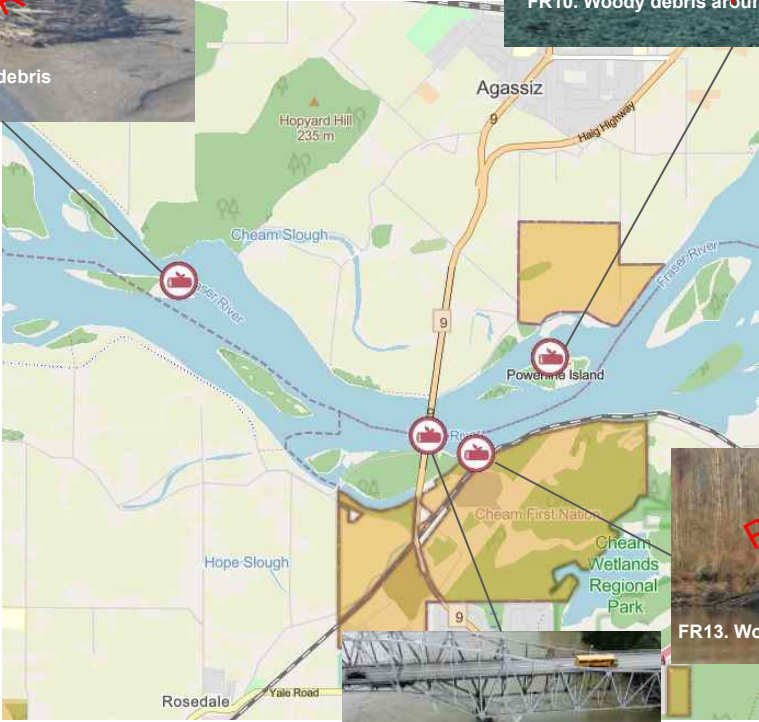
FR40. Section of boat hull



FR8. Woody debris



FR10. Woody debris around river

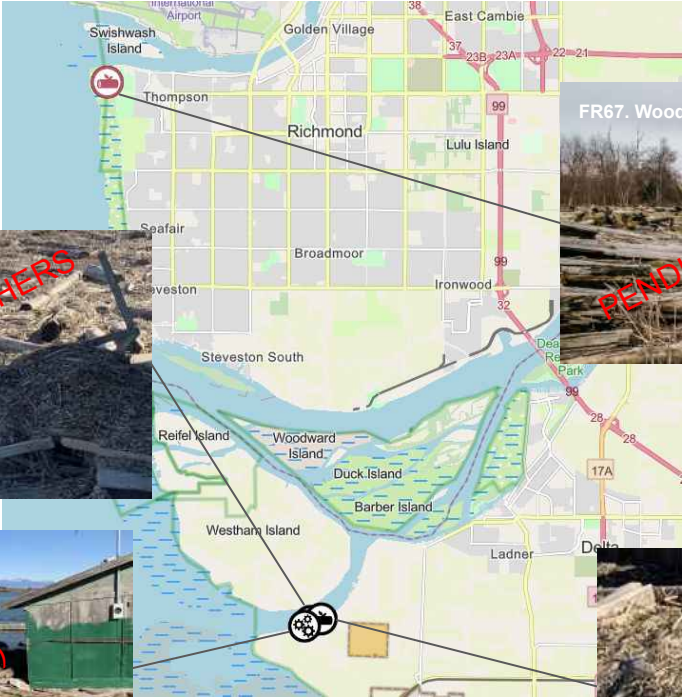


FR13. Woody debris

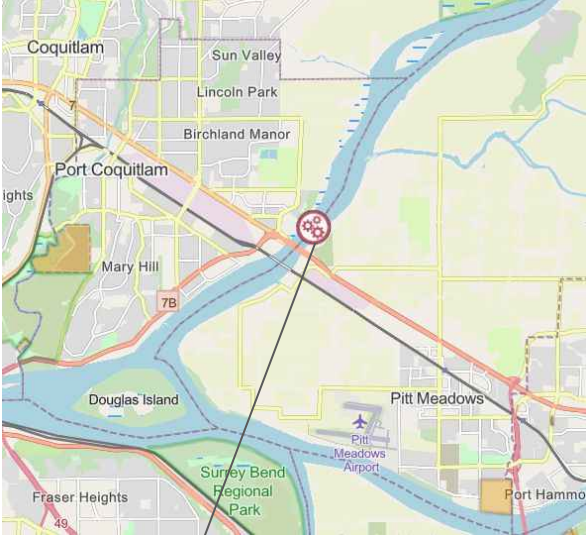


FR66. Woody debris around bridge pier

Fraser River



Fraser River



Fraser River Response Action Plan

| Action plan | Estimated timeline for removal |
|--|---|
| <ul style="list-style-type: none"> Once all permits, approvals and plans are in place, crews will be deployed to the river. Crews will be prioritising human made debris that poses a high risk first, but otherwise will remove all human made debris. Heavy equipment involved will include excavators, rock truck and flatbed trucks Entrance routes and staging areas for equipment and debris is being reviewed and will be communicated asap Once debris has been removed from the waterway, contractors will follow waste management plans Crew will stop work if human remains are found or unanticipated archaeological sites are discovered Natural debris will be reviewed by QP, DFO and FOR to determine if it poses a threat to public safety and/or infrastructure | <p>All work currently paused due to continuing high water levels.</p> <ul style="list-style-type: none"> FR6, FR38, FR40, FR-55, FR-58-65: subject to removal scheduling after freshet. FR2, FR6-10, FR13, FR28-FR33, FR-35, FR39 : pending regulatory approval Additional debris may be found, identified and reported in future reports as crews are navigating the river course and assessing any new debris identified from freshet. |
| Contractors involved | Waste management process |
| <p>Debris removal: Stqó:ya Construction Qualified Environmental: Stantec Archeological Professional: Stolo Nation Field Work Management: RAM Consulting FN Monitors: IAMC</p> | <ul style="list-style-type: none"> Waste will be staged and sorted Legal owners will be notified Metals will be salvaged or recycled Unsalvageable waste will be sent to landfills under proper disposal protocols See Appendix A Waste Management Strategic Plan |

Fraser River Response Action Plan

| Work completed prior week | Upcoming work to be completed |
|---|--|
| <ul style="list-style-type: none">• Small debris removal by boat is complete on Fraser.• Continued the assessment of woody natural debris, discuss strategy with appropriate parties, regulatory approval pending.• Ongoing communication with the FN bands | <p>Work to be completed next week</p> <ul style="list-style-type: none">• Completion of work plans.• Expecting to mobilize wk 1 of August.• 20 sites pending regulatory approval. <p>Upcoming Work</p> <ul style="list-style-type: none">• Continue with removal of woody debris along the river subject to water level.• Continue with planning and assessments due to impacts from freshet.• Phase 2 work planning\scheduling continues. |
| Relevant contacts | |
| <p>Contact for Contractors questions: yogan.r.reddy@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca</p> | |

Fraser River

| Map ID | Description | Type | Status | Removal date |
|--------|---------------------------------------|------------|--|--------------|
| FR-2 | Natural debris with human made debris | Human-made | Identified (pending regulatory approval) | TBD |
| FR-6 | Woody debris in Trout Creek | Natural | Identified (pending regulatory approval) | TBD |
| FR-7 | Woody debris on banks | Natural | Identified (pending regulatory approval) | TBD |
| FR-8 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| FR-9 | Fallen over trees | Natural | Identified (pending regulatory approval) | TBD |
| FR-10 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| FR-13 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| FR-14 | Tire and other human made debris | Human-made | Removed by Others | 2022-06-30 |
| FR-15 | Woody debris on river banks | Natural | Removed by Others | 2022-06-30 |
| FR-16 | Canoe Pass dock damage | Human-made | Removed by Others (repaired) | 2022-06-30 |
| FR-19 | Concrete culvert | Human-made | Identified (debris not found) | TBD |
| FR-22 | Boat debris, furniture | Human-made | Identified (debris not accessible) | TBD |
| FR-23 | Red container/pipe, metal debris | Human-made | Identified (debris not accessible) | TBD |
| FR-28 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| FR-29 | Logs on river bed | Natural | Identified (debris not accessible) | TBD |
| FR-30 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| FR-31 | Woody debris (Squamish) | Natural | Identified (pending regulatory approval) | TBD |
| FR-32 | Woody debris (Squamish) | Natural | Identified (pending regulatory approval) | TBD |
| FR-33 | Woody debris (Squamish) | Natural | Identified (pending regulatory approval) | TBD |
| FR-35 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| FR-39 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| FR-40 | Section of boat hull on Fraser River | Human-made | Identified (not accessible) | TBD |
| FR-59 | Woody debris | Natural | Identified | TBD |

Fraser River

| Map ID | Description | Type | Status | Removal date |
|--------|------------------------------|------------|--|--------------|
| FR-60 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| FR-66 | Woody debris around pier cap | Natural | Identified | TBD |
| FR-67 | Woody debris | Natural | Identified (pending assessment) | TBD |
| FR-68 | Woody debris | Natural | Identified (pending assessment) | TBD |
| FR-69 | Misc. debris | Human-made | Identified | TBD |



08

Chilliwack
River &
Vedder
River/Canal

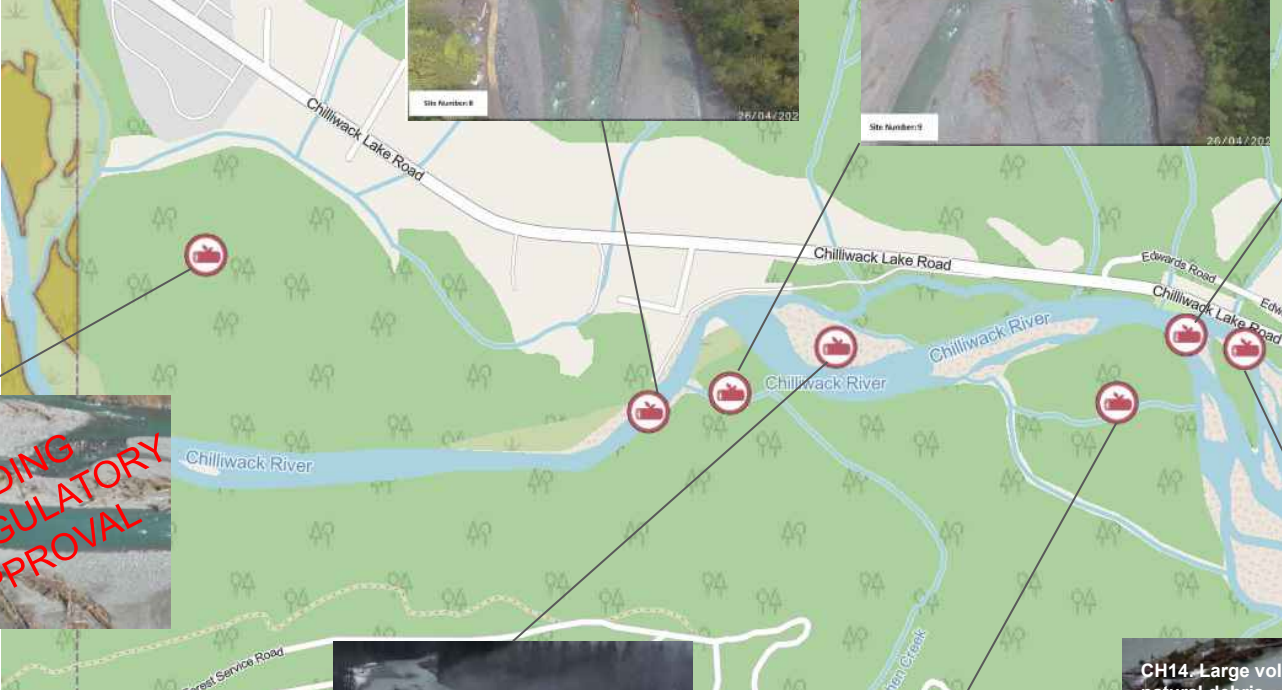
Chilliwack River & Vedder River/Canal

| OVERVIEW | | | |
|---|--|--|--|
| Work objectives | Community discussions status | Known debris | Permits status |
| <ol style="list-style-type: none"> 1. Remove human made debris and any natural debris causing threat to either public safety or infrastructure 2. Preserve cultural and historically significant areas. | <p>Continuing to schedule calls and visits with the remaining communities based on their availability.</p> <p>Recurring biweekly project update call with all local authorities and First Nations groups in the area scheduled every Thursday at 11am.</p> | <p>Phase 1</p> <p>57 debris sites identified</p> <ul style="list-style-type: none"> • 16 debris site have removal completed; and • 1 have been assessed and concluded not to be removed <p>Phase 2</p> <p>40 sites remaining as work identified .</p> <p>Additional debris being logged as information is being obtained from the aerial video, drone footage site visits and local communities.</p> | <p>ARC Heritage Investigation Permit 2021-0453 Issued under Section 12.2 of the Heritage Conservation Act</p> <p>FOR approval under Section 11 of the Water Sustainability Act; Permit issued on March 29, 2022</p> <p>DFO Authorization under Paragraphs 34.4(2) (b) and 35(2)(b) of the Fisheries Act (Emergency Situations); Authorization issued (Approval 22-HPAC-00204) Mar 3, 2022</p> <p>*Permits extended until September 30, 2022.</p> |

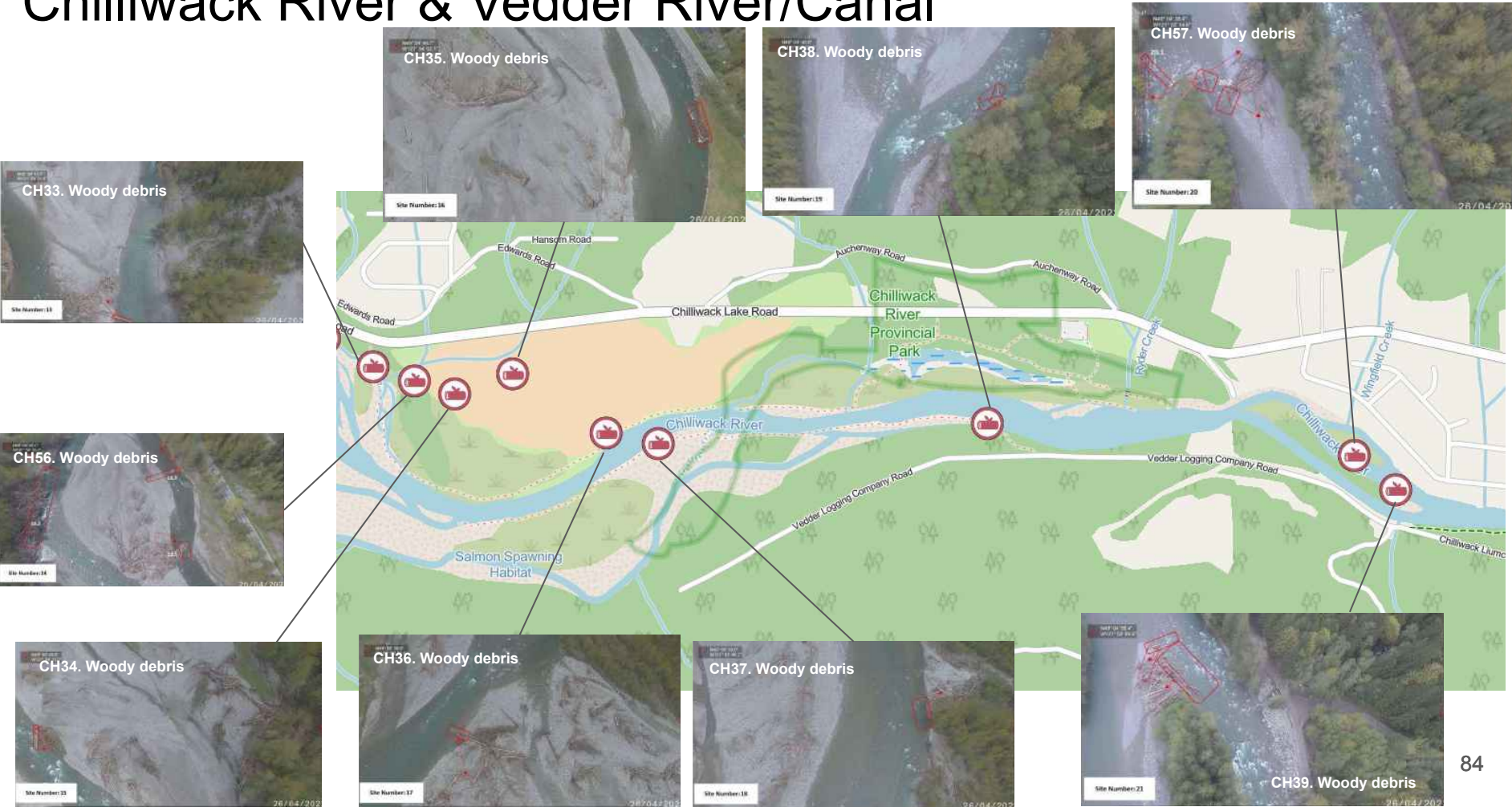
Chilliwack River & Vedder River/Canal



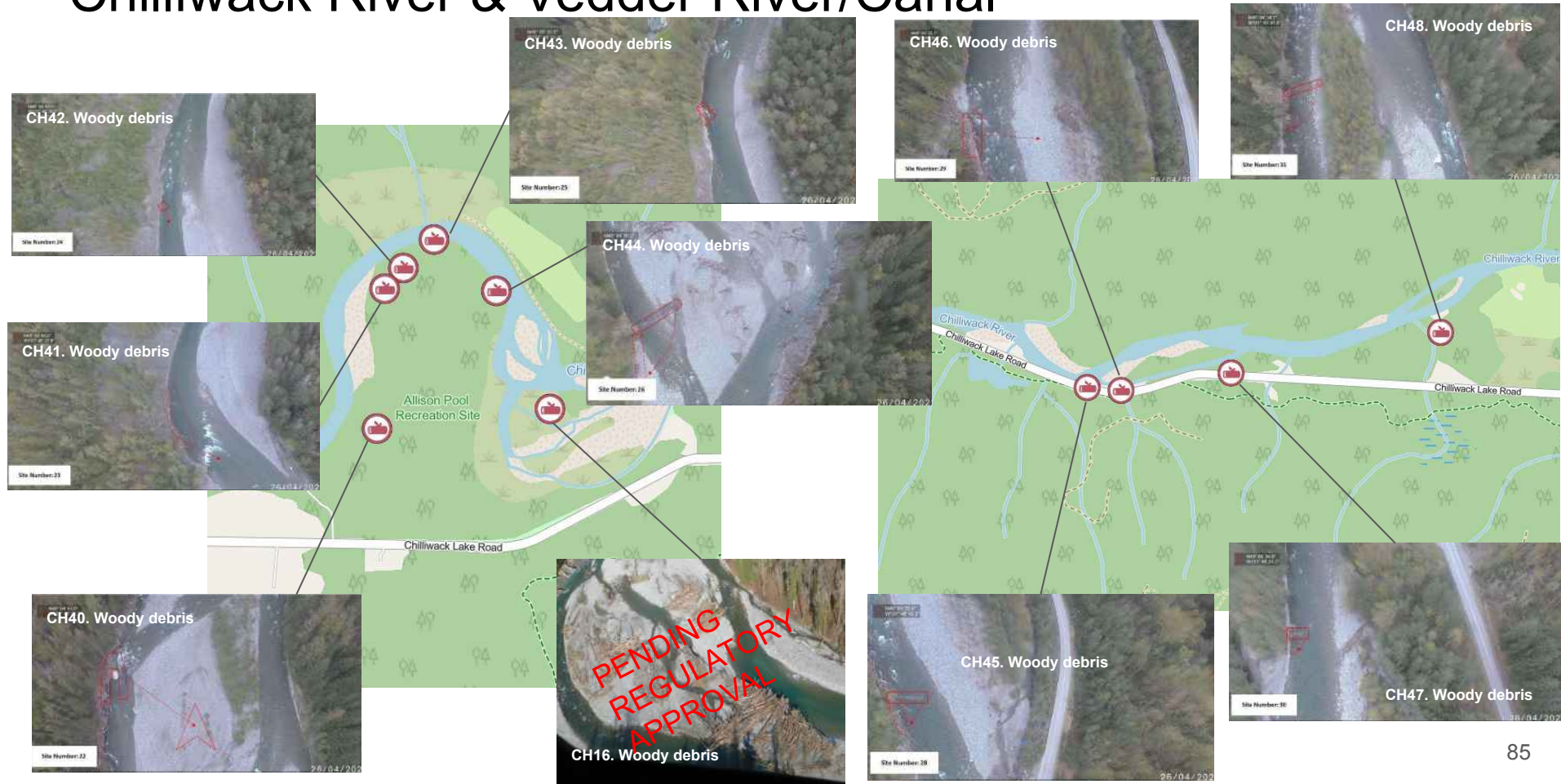
Chilliwack River & Vedder River/Canal



Chilliwack River & Vedder River/Canal



Chilliwack River & Vedder River/Canal



Chilliwack River & Vedder River/Canal



Chilliwack River & Vedder River/Canal Action Plan

| Action plan | Estimated timeline for removal |
|--|---|
| <ul style="list-style-type: none"> Once all permits, approvals and plans are in place, crews will be deployed to the river. Crews will be prioritising human made debris that poses a high risk first, but otherwise will remove all human made debris. Heavy equipment involved will include excavators, rock truck and flatbed trucks Entrance routes and staging areas for equipment and debris is being reviewed and will be communicated asap Once debris has been removed from the waterway, contractors will follow waste management plans Crew will stop work if human remains are found or unanticipated archaeological sites are discovered Natural debris will be reviewed by QP, DFO and FOR to determine if it poses a threat to public safety and/or infrastructure | <p>All work paused during freshet.</p> <ul style="list-style-type: none"> CH1, CH6-9, CH11-14, CH16 : approvals in progress. Additional debris may be found, identified and reported in future reports as crews are navigating the river course and assessing any new debris identified from freshet A 2 day aerial survey identified sites in the following areas: Sumas Prairie to Chilliwack River, Chilliwack River to Island 22, Island 22 to Hwy 9 Bridge (Agassiz), Hwy 9 Bridge (Agassiz) to Flood. Additional aerial site survey during the week of July 18th. |
| Contractors involved | Waste management process |
| <p>Debris removal: Stqó:ya Construction Qualified Environmental: Stantec Archeological Professional: Stolo Nation Field Work Management: RAM Consulting FN Monitors: IAMC</p> | <ul style="list-style-type: none"> Waste will be staged and sorted Legal owners will be notified Metals will be salvaged or recycled Unsalvageable waste will be sent to landfills under proper disposal protocols See Appendix A Waste Management Strategic Plan |

Chilliwack River & Vedder River/Canal Response Action Plan

| Work completed prior week | Upcoming work to be completed |
|--|--|
| <ul style="list-style-type: none">Continued with planning for upcoming workOngoing communication with FN bandsMultiple debris removedWoody and anthropogenic debris that has been approved for removal is complete.Kingcome sight visit. | <p>Work to be completed next week</p> <ul style="list-style-type: none">Continue with planning for upcoming workContinue discussions with FN bandsCrews will begin to mobilize. <p>Upcoming Work</p> <ul style="list-style-type: none">Continue with planning and assessments due to impacts from freshet.Aerial recon of east and west Abbotsford. |
| Relevant contacts | |
| Contact for Contractors questions: mj.siahdashti@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca | |

Chilliwack River & Vedder River/Canal

| Map ID | Description | Type | Status | Removal date |
|--------|---------------------------------|---------|---|--------------|
| CH-1 | Large volumes of natural debris | Natural | Identified (pending regulatory approval)C | TBD |
| CH-6 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-7 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-8 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-9 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-11 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-12 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-13 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-14 | Large volumes of natural debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-16 | Woody debris | Natural | Identified (pending regulatory approval) | TBD |
| CH-29 | Woody debris | Natural | Identified | TBD |
| CH-30 | Woody debris | Natural | Identified | TBD |
| CH-31 | Woody debris | Natural | Identified | TBD |
| CH-32 | Woody debris | Natural | Identified | TBD |
| CH-33 | Woody debris | Natural | Identified | TBD |
| CH-34 | Woody debris | Natural | Identified | TBD |
| CH-35 | Woody debris | Natural | Identified | TBD |
| CH-36 | Woody debris | Natural | Identified | TBD |
| CH-37 | Woody debris | Natural | Identified | TBD |
| CH-38 | Woody debris | Natural | Identified | TBD |
| CH-39 | Woody debris | Natural | Identified | TBD |
| CH-40 | Woody debris | Natural | Identified | TBD |
| CH-41 | Woody debris | Natural | Identified | TBD |

Chilliwack River & Vedder River/Canal

| Map ID | Description | Type | Status | Removal date |
|--------|---------------------------|---------|------------|--------------|
| CH-42 | Woody debris | Natural | Identified | TBD |
| CH-43 | Woody debris | Natural | Identified | TBD |
| CH-44 | Woody debris | Natural | Identified | TBD |
| CH-45 | Woody debris | Natural | Identified | TBD |
| CH-46 | Woody debris | Natural | Identified | TBD |
| CH-47 | Woody debris | Natural | Identified | TBD |
| CH-48 | Woody debris | Natural | Identified | TBD |
| CH-49 | Woody debris | Natural | Identified | TBD |
| CH-50 | Woody debris | Natural | Identified | TBD |
| CH-51 | Woody debris | Natural | Identified | TBD |
| CH-52 | Woody debris | Natural | Identified | TBD |
| CH-53 | Woody debris | Natural | Identified | TBD |
| CH-54 | Woody debris | Natural | Identified | TBD |
| CH-55 | Woody debris | Natural | Identified | TBD |
| CH-56 | Woody debris | Natural | Identified | TBD |
| CH-57 | Woody debris | Natural | Identified | TBD |
| CH-58 | Weir at Smith Falls Creek | Natural | Identified | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.



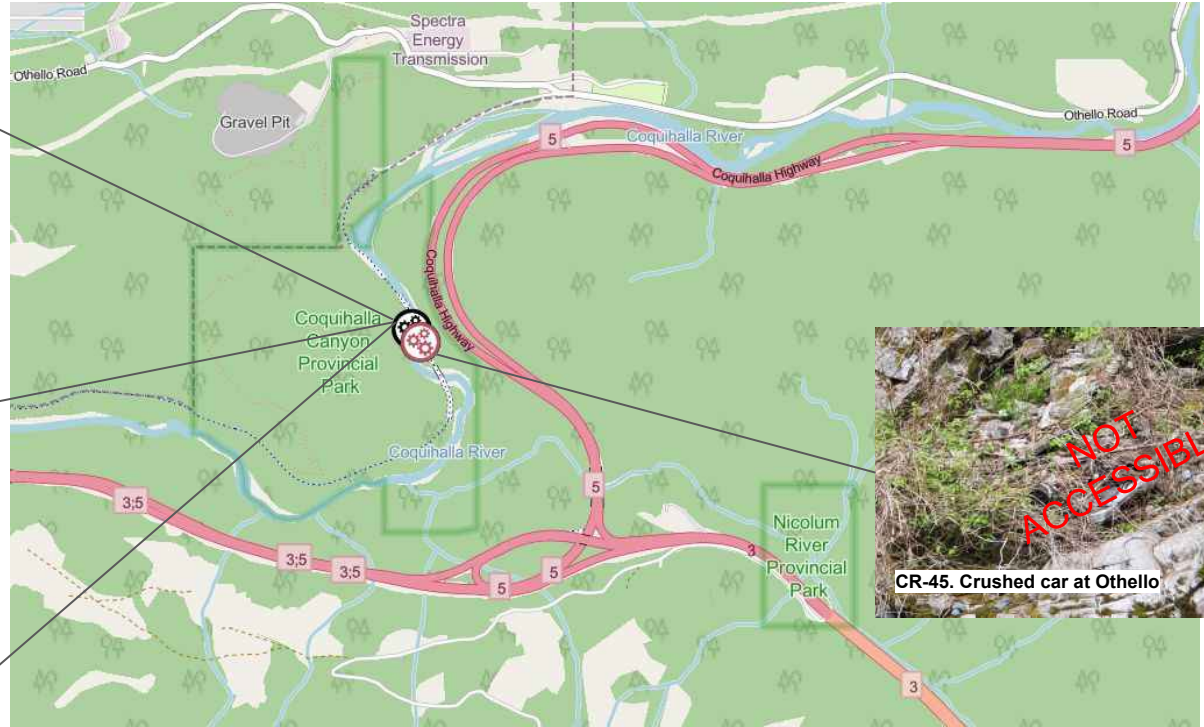
09

Coquihalla River

Coquihalla River

| OVERVIEW | | | |
|---|--|---|--|
| Work objectives | Community discussions status | Known debris | Permits status |
| <ol style="list-style-type: none"> 1. Remove human made debris and any natural debris causing threat to either public safety or infrastructure 2. Preserve cultural and historically significant areas. | <p>Continuing to schedule calls and visits with the remaining communities based on their availability.</p> <p>Recurring biweekly project update call with all local authorities and First Nations groups in the area scheduled every Thursday at 11am.</p> | <p>44 debris sites identified in total</p> <p>Phase 1 (see Appendix D)</p> <ul style="list-style-type: none"> • 36 debris sites have removal completed; and • 6 have been assessed and concluded not to be removed <p>Phase 2</p> <ul style="list-style-type: none"> • 1 debris site identified; and • 1 debris site has removal completed; <p>This leaves 1 site remaining as identified and paused due to water levels.</p> | <p>ARC Heritage Investigation Permit 2021-0453 Issued under Section 12.2 of the Heritage Conservation Act.</p> <p>FOR approval under Section 11 of the Water Sustainability Act; Permit issued on March 29, 2022</p> <p>DFO Authorization under Paragraphs 34.4(2) (b) and 35(2)(b) of the Fisheries Act (Emergency Situations); Authorization issued ((Approval 22-HPAC-00204) Mar 3</p> <p>*Permits extended until September 30, 2022.</p> |

Coquihalla River



Coquihalla River Response Action Plan

| Action plan | Estimated timeline for removal |
|--|--|
| <ul style="list-style-type: none"> • Crews are being deployed to the river in phases. Crews will be prioritising human made debris that poses a high risk first, but otherwise will remove all human made debris. Heavy equipment involved will include excavators, rock truck and flatbed trucks • Entrance routes and staging areas for equipment and debris is being reviewed and will be communicated asap • Once debris has been removed from the waterway, contractors will follow waste management plans • Crew will stop work if human remains are found or unanticipated archaeological sites are discovered • Natural debris will be reviewed by QP, DFO and FOR to determine if it poses a threat to public safety and/or infrastructure | <ul style="list-style-type: none"> • Additional debris may be found, identified and reported in future reports as crews are navigating the river course and assessing any new debris identified from freshet • Aerial reconnaissance continuing the week commencing August 1st. |
| Contractors involved | Waste management process |
| <p>Debris removal: Stqó:ya Construction Qualified Environmental: Stantec Archeological Professional: Stolo Nation Field Work Management: RAM Consulting FN Monitors: IAMC-TMX</p> | <ul style="list-style-type: none"> • Waste will be staged and sorted • Legal owners will be notified • Metals will be salvaged or recycled • Unsalvageable waste will be sent to landfills under proper disposal protocols • See Appendix A Waste Management Strategic Plan |

Coquihalla River Response Action Plan

| Work completed prior week | Upcoming work to be completed |
|--|--|
| <ul style="list-style-type: none">• Linear debris hand picking removal continues.• Othello tunnel removals complete. | <p>Work to be completed next week</p> <ul style="list-style-type: none">• Removal of debris as identified sites are approved and become accessible. <p>During Freshet Pause</p> <ul style="list-style-type: none">• Continue assessment and planning for any newly identified debris when instream work resumes.• Continue engagement with FN communities in area• Plan for linear debris removal. |
| Relevant contacts | |
| Contact for Contractors questions: mj.siahdashti@pwc.com Contact for Ministry of Environment: doc.ops.eep@gov.bc.ca | |

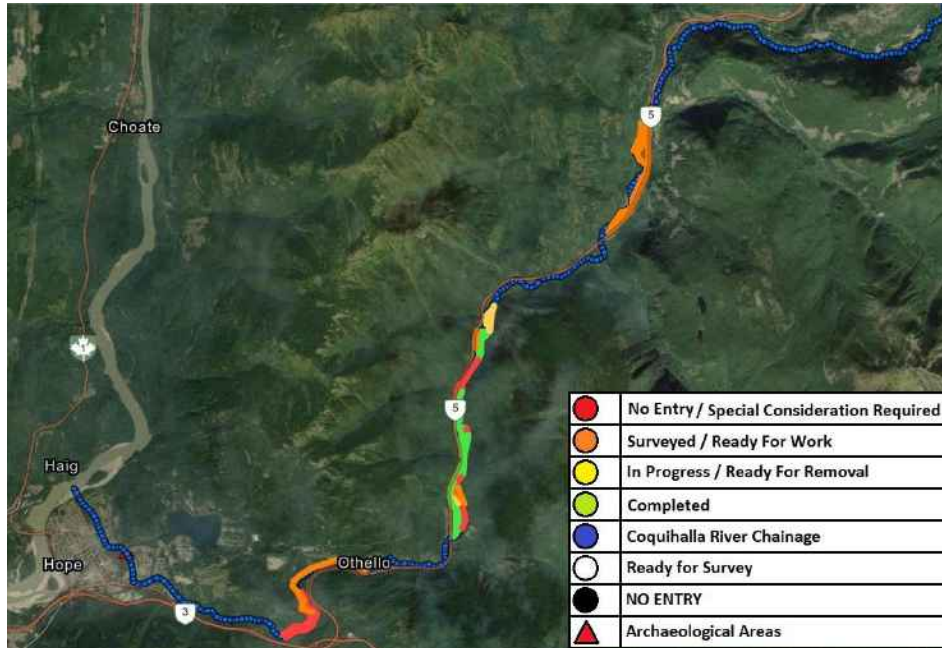
Coquihalla River

| Map ID | Contract or ID* | Description | Type | Status | Removal date |
|--------|-----------------|---|------------|------------------------------------|--------------|
| CR-44 | CR-11 | Assorted anthropogenic debris including boat hull | Human-made | Removed | 2022-06-07 |
| CR-45 | | Crushed car at Othello | Human-made | Identified (debris not accessible) | TBD |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

Linear debris progress - Coquihalla River

- Work has been completed along shorelines and in boat in all 3 rivers for Phase 1.
- 5 areas have been identified after assessment and recommendations made. The primary zone to concentrate work will be the Island 22 area upstream to Flood.
- Phase 2 linear debris removal has not yet been mobilized.

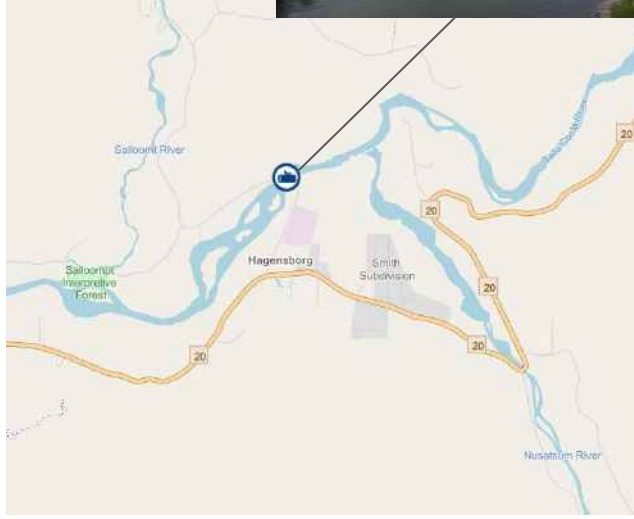




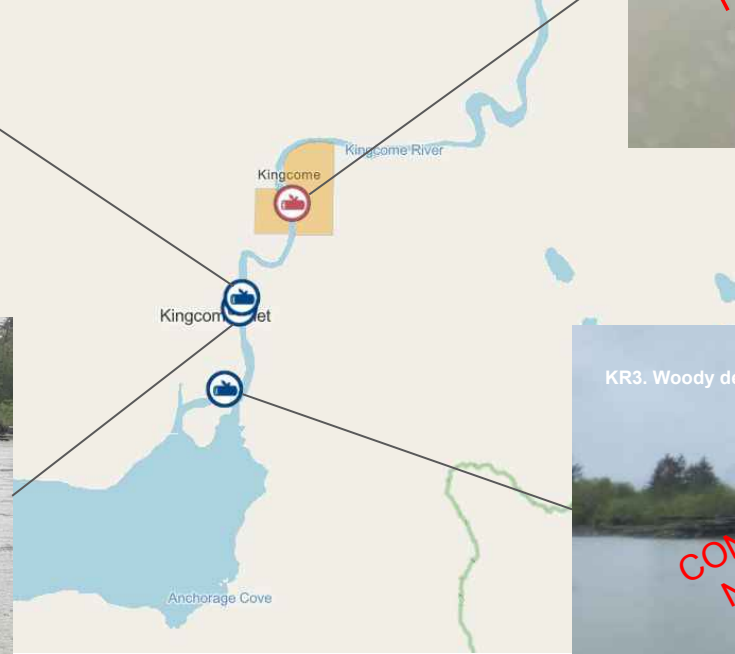
10

Other sites
(Bella Coola
& Kingcome)

Bella Coola River



Kingcome River



Bella Coola & Kingcome River

| Map ID | Description | Type | Status | Removal date |
|--------|---|---------|--|--------------|
| BR-1 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| BR-2 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| BR-3 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| BR-4 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| BR-5 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| BR-6 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| BR-7 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| BR-8 | Wood debris at Tastsquan Creek's water intake | Natural | Identified (pending regulatory approval) | TBD |
| KR-1 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| KR-2 | Woody debris | Natural | Identified (pending regulatory approval) | N/A |
| KR-3 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| KR-4 | Woody debris | Natural | Concluded - Out of Scope | N/A |



11

Appendices

Appendix A - Waste Management strategic plan

For each piece of debris taken from a river system the following assessment will be conducted

1. Identify owner. Where relevant if an owner is identified they will be contacted to recover the debris from a specific location within a relevant timeframe. If not collected within the agreed timeframe, a decision will be made on a specific item basis on next steps. This may include
 - a. Moving the item to a holding location or transporting to the owner
 - b. Having owner approval that the item can be disposed of directly

2. For all debris not matched to an owner this be sorted at an agreed staging area on the banks of the water system.
 - a. The staging area will be clearly marked and have layout zones on site for material types so that debris can be collected into appropriate areas. The types are:
 - i. Green Waste/Vegetative Debris
 - ii. Wood
 - iii. Construction/Demolition Debris
 - iv. Bulky Solid Waste
 - v. White Goods
 - vi. Metals includes vehicles
 - vii. Household Hazardous Waste (HHW)
 - viii. Non-Putrescent Municipal Solid Waste
 - ix. E-waste includes computers, tablets, phones, etc.
 - b. If waste has any risk of leakage, the area will be appropriately tarped and covered before debris is moved to the staging area.

Appendix A - Waste Management strategic plan

3. There are four primary methods for addressing debris. 1. Reuse 2. Recycle 3. Energy recovery; and 4. Dispose. At the staging area the debris will be sorted into the following categories:

- a. Green Waste/Vegetative Debris includes organic materials such as small tree branches (<30cm diameter) and animal feed – destined for composting
- b. Wood Stockpile includes untreated wood such as tree trunks, lumber, pallets etc. - destined for chipping and composting or incineration for energy. (if local landowners cannot use for personal purposes)
- c. Construction/Demolition Debris includes treated wood, drywall, insulations, etc. (do not include asbestos containing material) - destined for landfill
- d. Bulky Solid Waste includes objects that do not fit the other categories, such as mattresses, etc. – destined for reuse, recycling or refuse depending on object.
- e. White Goods include appliances such as fridges and freezers - destined for reuse if still in good working order or recycling after ozone depleting substances have been removed
- f. Metals includes vehicles, miscellaneous metals - destined for recycling
- g. Household Hazardous Waste (HHW) is hazardous waste that originates from residences and will require special disposal. Examples of HHW include flammable liquids, pool chemicals, paint, propane cylinders, and other material banned from disposal in municipal landfills. This waste will be destined for a HW management company, local Return Collection Facility, and/or temporary HHW transfer station.
- h. Non-Putrescent Municipal Solid Waste – is all other small non-organic waste that does not fall into these other categories. e.g. old toys, spoiled clothing, etc. – destined for reuse, recycling or refuse depending on object.
- i. E-waste includes computers, tablets, phones, etc. – destined for recycling.

Appendix B - Contaminant Sampling Plan at debris removal sites

Sites with large debris items - what sites are being tested?

- Qualified Environmental Professionals have assessed and confirmed that surface water is not expected to have detectable levels of contamination at the known debris sites. Basic water quality parameter sampling at sites in stream will include turbidity as needed.
- Soil/sediment sampling may occur in the vicinity around a debris item and will be determined on a site by site basis. Requirement to sample is highly dependant on the type of debris and potential for contamination
- It is expected that contamination, if present, will be primarily within soil/sediment due to leaks, spills or within debris remnants.
- Detectable observations of hydrocarbons within soil/sediment via visual or odor will automatically be tested and soil will be removed and delineated from other material that is removed from a site.
- General mixed construction and demo waste and building materials will be evaluated for potential sources of hazardous wastes by onsite staff and Contractor.
- If a vehicle or debris item is removed with soil/sediment in it, the soil/sediment will be collected and stored at a staging area and tested for potential contaminants prior to disposal.

Sites with large debris items - what contaminants are being tested?

Testing will primarily focus on potential hydrocarbon contamination and identification of hazardous construction waste with a focus on the following potential contaminants of concern:

- Benzene, Toluene, Ethylbenzene and Xylene / Volatile Petroleum Hydrocarbons (BTEX/VPH),
- Light Extractable Petroleum Hydrocarbons / Heavy Extractable Petroleum Hydrocarbons / Polycyclic Aromatic Hydrocarbons (LEPH/HEPH/ PAHs),
- Metals, which will include lead paints, mercury etc. from construction and demo debris fluorescent lighting,
- Volatile Organic Compounds (VOCs),
- Glycols and Polychlorinated Biphenyls (PCBs).

Appendix B - Contaminant Sampling Plan at debris removal sites

Sites with small debris items

- The hand picking small debris teams are testing for health and safety requirements
- This is focused on testing soil samples in areas of their work for E.coli and Fecal Coliform prior to working in the area
- The team has a Qualified Biologist on site at all times.

Sampling safety across all sites

- All samples will be taken with the appropriate Personal Protective Equipment (PPE) being worn at all times, by trained and qualified professionals and in accordance with standard sampling procedures.
- Where there is a potential risk to health and safety, alternate forms of clean up and disposal may have to be considered (i.e. hazmat assessment).
- Sources may include (but not be limited to): Building materials containing asbestos (potentially a health and safety concern – alternate arrangements and sampling required by others), lead paint, paints and thinners, fluorescent lamps/lights and ballasts, thermostats, electrical equipment, batteries, glues and solvents, and cooling systems.

Sampling results

- Depending on location and team, samples will be submitted to an accredited Canadian laboratory for analysis and results will be shared.

Appendix B - Environmental Sampling Program

The objectives of the sampling program performed by the Contractor on behalf of the Province are as follows:

1. Assist the Province in development of a sampling strategy and plan for assessing the safety of waterways (scope to be defined, including the parameters of concern).
2. Complete a comprehensive sampling program that is consistent with the sampling plan developed and approved to address potential contamination concerns related to residual flood effects along the waterways. This sampling program will consist of a single sampling campaign in all waterways subject to this assessment.
3. Perform confirmatory sampling following removal of debris material that has been determined by others to be contaminated or that potential residual contamination risks have been identified by the debris removal teams.
4. Present all sampling results in factual memorandum to document findings and recommendations (if needed).
5. Compile and manage analytical results obtained by the Province's various contractors and integration into a common web map application and database to be made available to the public.

The waterways of concern identified for this assessment:

1. **Area 1** in the Merritt Study Area (Nicola River – from Spences Bridge to Merritt and Coldwater River from Merritt to Juliet Drive Junction)
2. **Area 2** in the Princeton Study Area (Tulameen River – from Tulameen to Princeton and Similkameen River – from Princeton to Eastgate)
3. **Area 3** in the Sumas Prairie Study Area (Lower Fraser Valley Waterways from Hope to Abbotsford)

Media of concern:

1. The media of concern are surface water, submerged river sediments and soil (including seasonally exposed river sediments).

Technical working group:

1. A team of key individuals from ENV will be assigned to assist / review / validate the sampling work being performed on behalf of the Province. This team has not been assigned at this point.

Community engagement:

1. The Province (with support from the Contractor) should engage with the communities that use these waterways, to obtain their knowledge and input on how the waterways are used. Once this is established, the Contractor will work with the Province to establish the sampling framework.
2. In the event that specific environmental issues are identified to the Province by the local communities, the Contractor may assist the Province to address these issues. However, these interventions are out of scope at this point.

Appendix C - Glossary

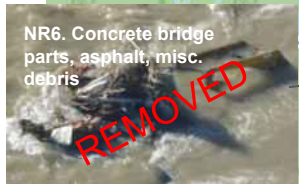
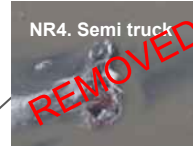
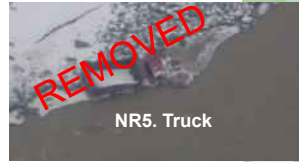
| Acronym | Description |
|---------|---|
| ARC | British Columbia Archaeology Branch |
| BR | Bella Coola River |
| CH | Chilliwack River |
| CR | Coquihalla River |
| CRS | Coastal Restoration Society |
| CW | Coldwater River |
| DFO | Department of Fisheries and Oceans Canada |
| FLNRO | The Ministry of Forests, Lands, Natural Resource Operations and Rural Development |
| FN | First Nation |
| FR | Fraser River |
| KR | Kingcome River |

| Acronym | Description |
|---------|-----------------------------------|
| LNIB | Lower Nicola IB |
| LSIB | Lower Similkameen IB |
| NOI | Notice of Intent |
| NR | Nicola River |
| OLF | Ocean Legacy Foundation |
| QP | Qualified Professional |
| SR | Similkameen River |
| THR | Thompson River |
| TR | Tulameen River |
| TNRD | Thompson-Nicola Regional District |
| USIB | Upper Similkameen IB |

Appendix D - Phase 1 Debris Removal

| | Watercourses | Page |
|---|---|-----------|
| 1 | Nicola River (Highway 8; Spences Bridge to Merritt) | 127 - 138 |
| 2 | Coldwater River (Highway 5) | 139 - 147 |
| 3 | Thompson River | 148 - 150 |
| 4 | Tulameen River | 151 - 160 |
| 5 | Similkameen River | 161 - 165 |
| 6 | Fraser River | 166 - 174 |
| 7 | Chilliwack River | 175 - 180 |
| 8 | Coquihalla River | 181 - 190 |

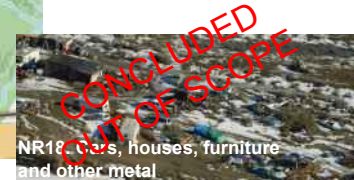
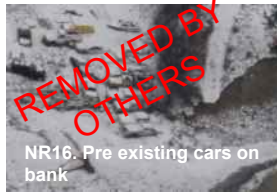
01. Nicola River - Known Debris



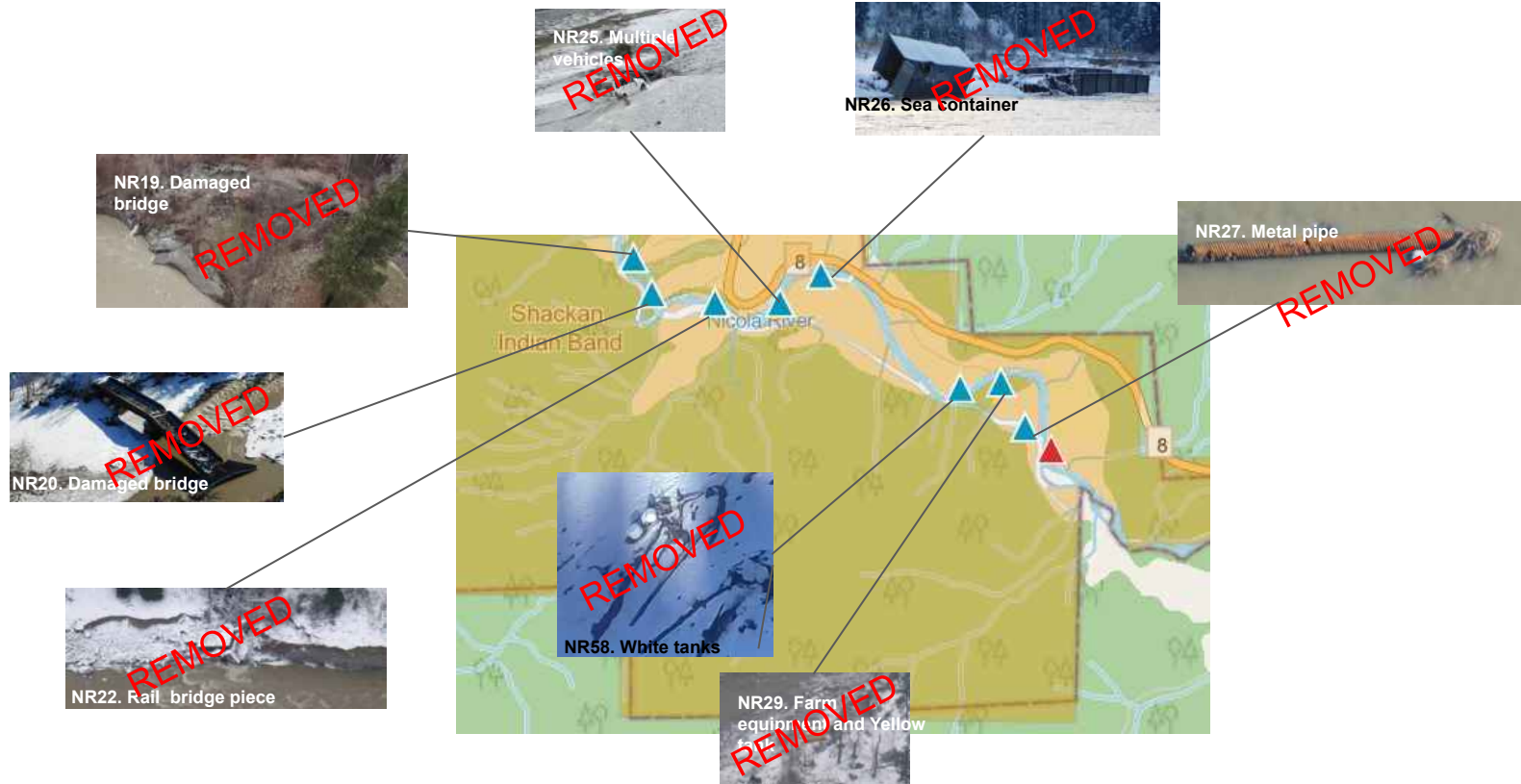
01. Nicola River - Known Debris



01. Nicola River - Known Debris

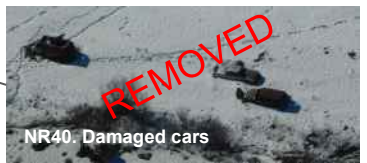
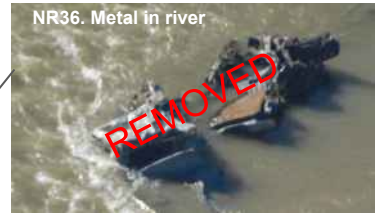
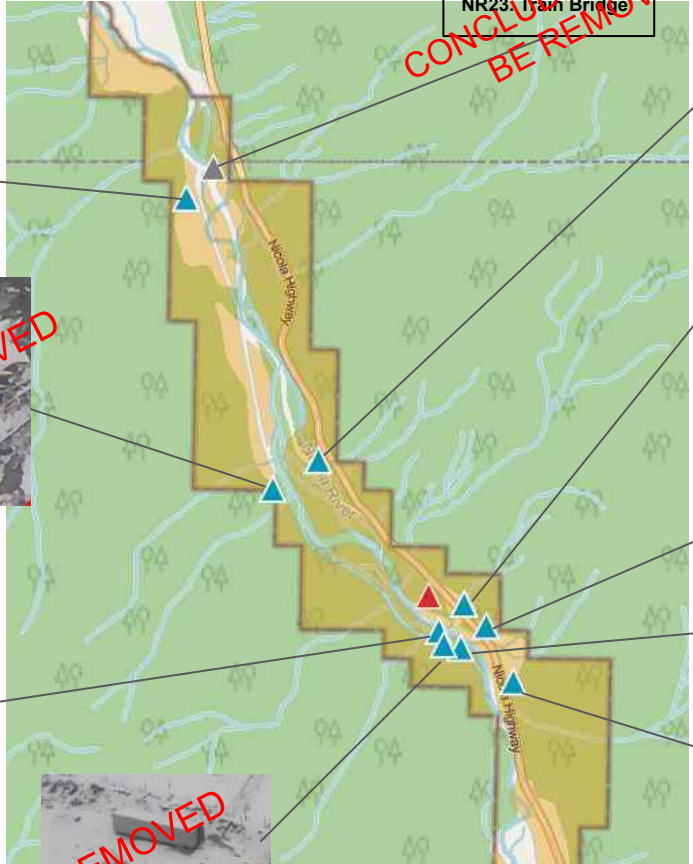


01. Nicola River - Known Debris

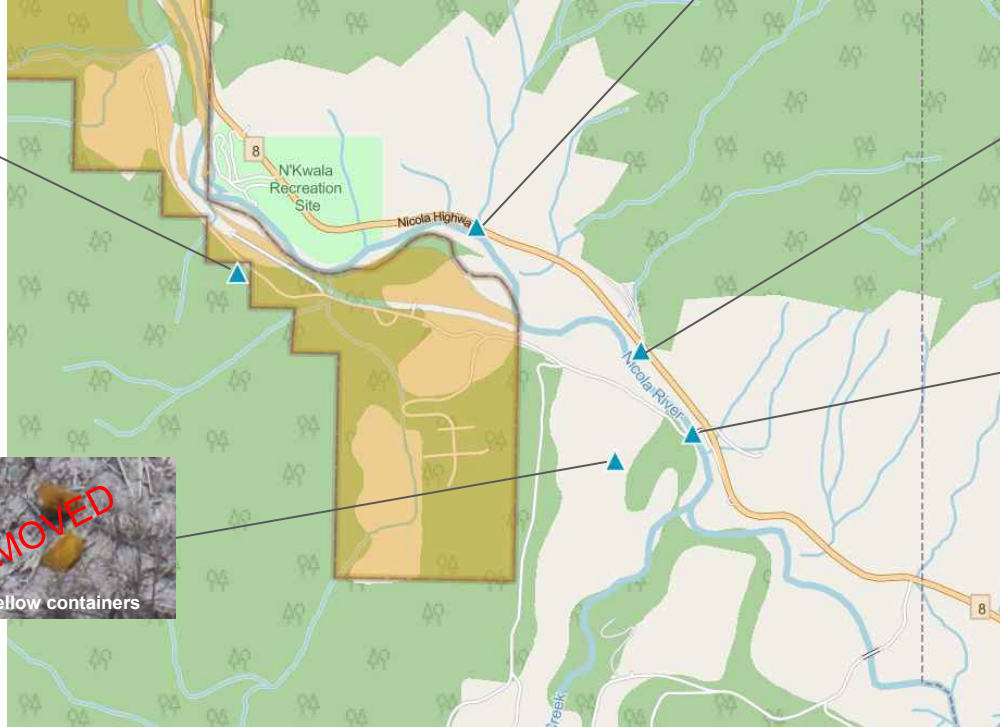


01. Nicola River - Known Debris

CONCLUDED - NOT TO BE REMOVED



01. Nicola River - Known Debris



REMOVED

NR42. Submerged roads and infrastructure (no picture available)



REMOVED

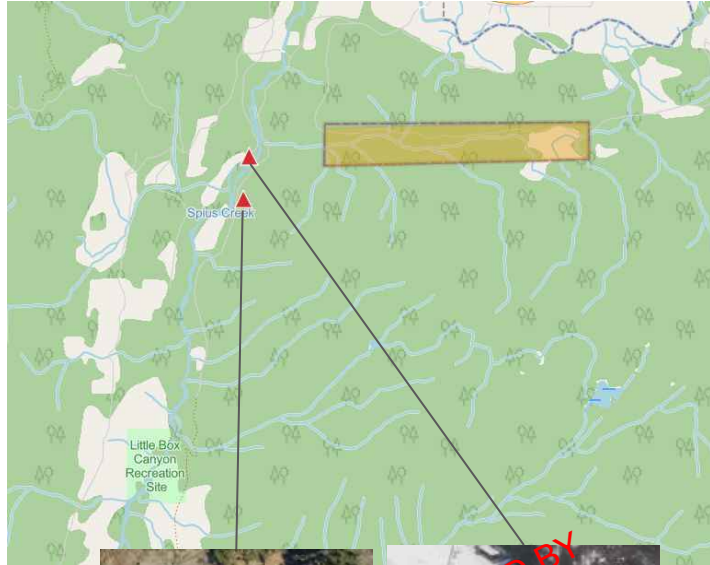
NR45. Damaged bridge (to be addressed by FLNRO) and Housing material



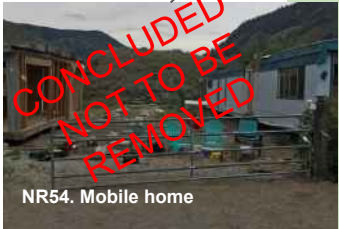
01. Nicola River - Known Debris



01. Nicola River - Known Debris



01. Nicola River - Known Debris



NR30. Human made debris consisting of telephone poles, wheels and household items (no picture available)

01. Nicola River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|--|-------------|-------------|--------------|
| NR-3 | N/A | Placeholder | Placeholder | Placeholder | |
| NR-4 | NI_07.3 | Semi truck in river | Human-made | Removed | 2022-04-13 |
| NR-5 | NI_07.9 | Truck | Human-made | Removed | 2022-04-13 |
| NR-6 | NI_12.2 | Concrete bridge parts, asphalt, misc. debris | Human-made | Removed | 2022-04-20 |
| NR-7 | NI_12.6 | Concrete and pipes | Human-made | Removed | 2022-04-20 |
| NR-9 | N/A | Concrete | Human-made | Removed | 2022-04-06 |
| NR-10 | N/A | Wooden furniture | Human-made | Removed | 2022-04-27 |
| NR-11 | NI_16.1 | Tractor, ATV, trailer and tin roof | Human-made | Removed | 2022-04-20 |
| NR-12 | NI_16.1 | Damaged metal barrel | Human-made | Removed | 2022-04-20 |
| NR-13 | NI_16.8 | Irrigation pivot line | Human-made | Removed | 2022-04-20 |
| NR-14 | N/A | Metal debris | Human-made | Removed | 2022-05-04 |
| NR-15 | NI_39.9 | Green roofing | Human-made | Removed | 2022-04-27 |
| NR-19 | NI_24.8b | Damaged bridge | Human-made | Removed | 2022-04-06 |
| NR-20 | NI_25.6 | Damaged bridge | Human-made | Removed | 2022-04-20 |
| NR-21 | N/A | Placeholder | Placeholder | Placeholder | |
| NR-22 | NI_12.6b_ | Rail bridge piece | Human-made | Removed | 2022-04-06 |
| NR-25 | NI_25.7 | Multiple vehicles | Human-made | Removed | 2022-03-30 |
| NR-26 | NI_26.2 | Sea container | Human-made | Removed | 2022-03-30 |
| NR-27 | N/A | Metal pipe | Human-made | Removed | 2022-04-06 |
| NR-29 | NI_28.0 | Farm equipment and yellow tank | Human-made | Removed | 2022-03-30 |
| NR-32 | N/A | Placeholder | Placeholder | Placeholder | |
| NR-33 | NI_37.8 | Damaged motorhome, woody debris | Human-made | Removed | 2022-04-27 |
| NR-34 | NI_39.9 | Metal | Human-made | Removed | 2022-04-27 |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

01. Nicola River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|---------|--------------|
| NR-35 | NI_39.9 | Wooden roofing | Human-made | Removed | 2022-04-27 |
| NR-36 | NI_41.5 | Metal in river | Human-made | Removed | 2022-04-06 |
| NR-37 | NI_41.9 | Metal pipe in river | Human-made | Removed | 2022-04-06 |
| NR-38 | NI_46.0 | Sea container | Human-made | Removed | 2022-02-22 |
| NR-39 | NI_41.9 | Cars, industrial metal | Human-made | Removed | 2022-04-27 |
| NR-40 | N/A | Damaged cars | Human-made | Removed | 2022-04-27 |
| NR-41 | N/A | Tan sea container | Human-made | Removed | 2022-04-27 |
| NR-42 | N/A | Submerged infrastructure | Human-made | Removed | 2022-04-27 |
| NR-43 | NI_50.0 | Unknown debris | Human-made | Removed | 2022-04-27 |
| NR-44 | N/A | Yellow container | Human-made | Removed | 2022-03-23 |
| NR-47 | NI_56.5 | Industrial material | Human-made | Removed | 2022-04-27 |
| NR-49 | NI_58.0 | Tires, farm equipment and pickup truck | Human-made | Removed | 2022-03-23 |
| NR-52 | NI_07.9 | Motor home | Human-made | Removed | 2022-04-13 |
| NR-53 | NI_07.9 | Pickup truck | Human-made | Removed | 2022-04-13 |
| NR-57 | N/A | Metal trailer | Human-made | Removed | 2022-04-20 |
| NR-58 | N/A | White tanks | Human-made | Removed | 2022-04-13 |
| NR-60 | N/A | House on banks and other house debris | Human-made | Removed | TBC |
| NR-61 | NI 69.2 | Two vehicles | Human-made | Removed | 2022-04-20 |
| NR-67 | N/A | Woody debris | Natural | Removed | TBC |
| NR-68 | N/A | Woody debris | Natural | Removed | TBC |
| NR-24 | NI_31.1 | Metal pile mixed with natural debris | Human-made | Removed | 2022-05-18 |
| NR-30 | NI_06.8Tele | Telephone poles, wheels and household items | Human-made | Removed | 2022-05-18 |
| NR-48 | NI_57.2 | Metal sheets and wires | Human-made | Removed | 2022-06-01 |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

01. Nicola River

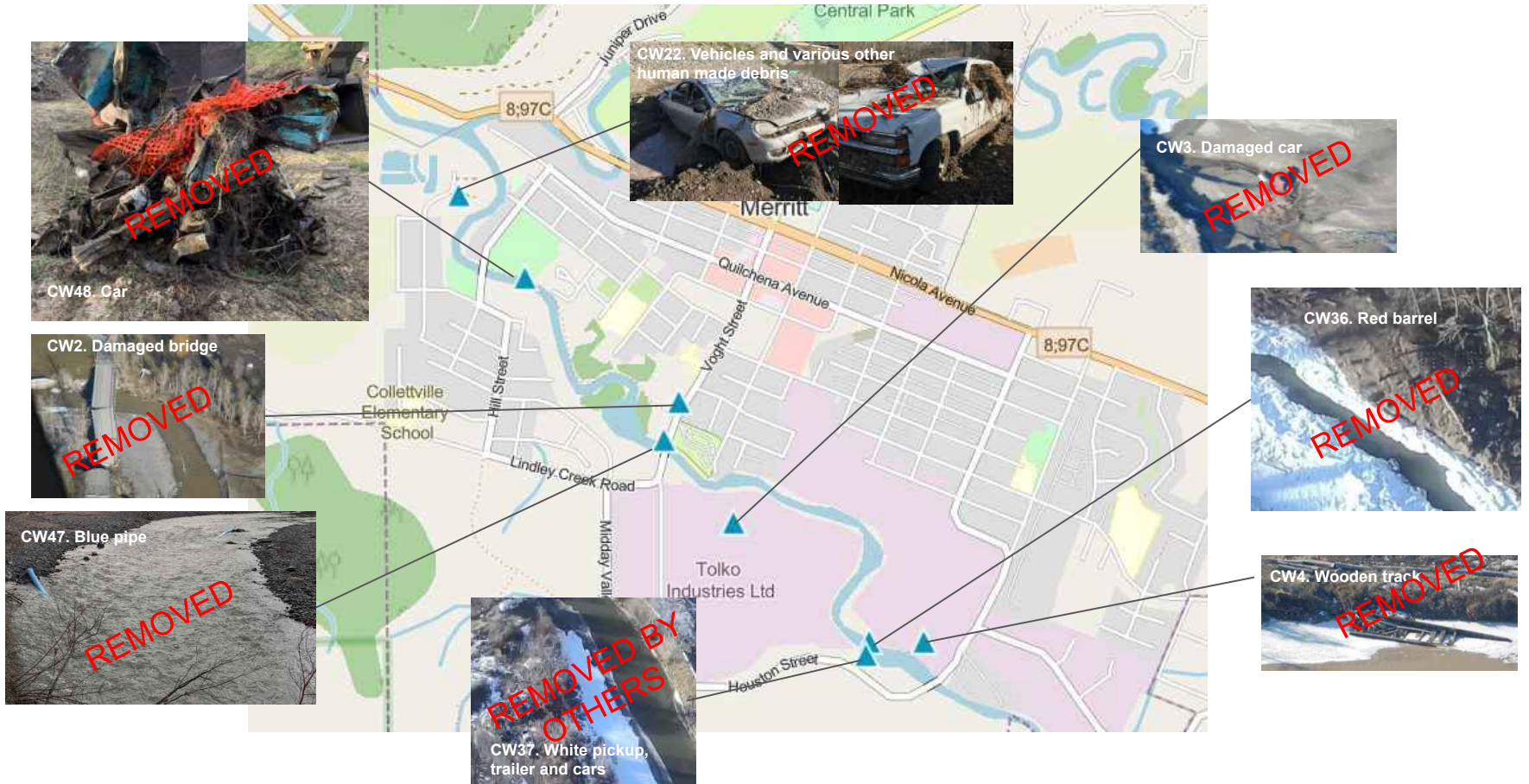
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|--------|----------------|---|------------|----------------------------|--------------|
| NR-50 | NI_61.0 | Metal pipes | Human-made | Removed | 2022-05-24 |
| NR-59 | NI_41.5 | Cars, tires and metal containers | Human-made | Removed | TBD |
| NR-2 | MOTI | Damaged bridge | Human-made | Removed by MOTI | 2022-04-13 |
| NR-16 | NI_19.0 | Pre-existing cars on bank | Human-made | Removed by Local Community | 2022-04-20 |
| NR-31 | FLNRO | Bridge piece (FLNRO) | Human-made | Removed by FLNRO | 2022-04-20 |
| NR-45 | FLNRO | Damaged bridge (FLNRO) and housing material | Human-made | Removed by FLNRO | 2022-04-06 |
| NR-46 | SP 3 | Damaged house and housing material by river | Human-made | To be Removed by Others | TBC |
| NR-51 | FLNRO | Bridge (FLNRO) | Human-made | Removed by FLNRO | 2022-04-20 |
| NR-62 | N/A | Undermined farm building | Human-made | To be Removed by Others | TBC |
| NR-63 | FLNRO | Washed out bridge deck | Human-made | To be Removed by FLNRO | TBC |
| NR-64 | FLNRO | Undermined bridge | Human-made | To be Removed by FLNRO | TBC |
| NR-65 | FLNRO | Small bridge partially washed out | Human-made | To be Removed by FLNRO | TBC |
| NR-66 | FLNRO | Bridge washed out over Spius Creek | Human-made | To be Removed by FLNRO | TBC |
| NR-1 | N/A | Woody deris | Natural | Concluded - Out of Scope | N/A |
| NR-8 | N/A | Sediment and concrete | Human-made | Concluded - Out of Scope | N/A |
| NR-17 | N/A | Cars on bank | Human-made | Concluded - Out of Scope | N/A |
| NR-18 | N/A | Cars, houses, furniture and other metal | Human-made | Concluded - Out of Scope | N/A |
| NR-23 | N/A | Train bridge | Human-made | Concluded - Out of Scope | N/A |
| NR-54 | NI_07.9 | Mobile home | Human-made | Concluded - Out of Scope | N/A |
| NR-56 | N/A | Woody debris | Natural | Concluded - Out of Scope | N/A |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

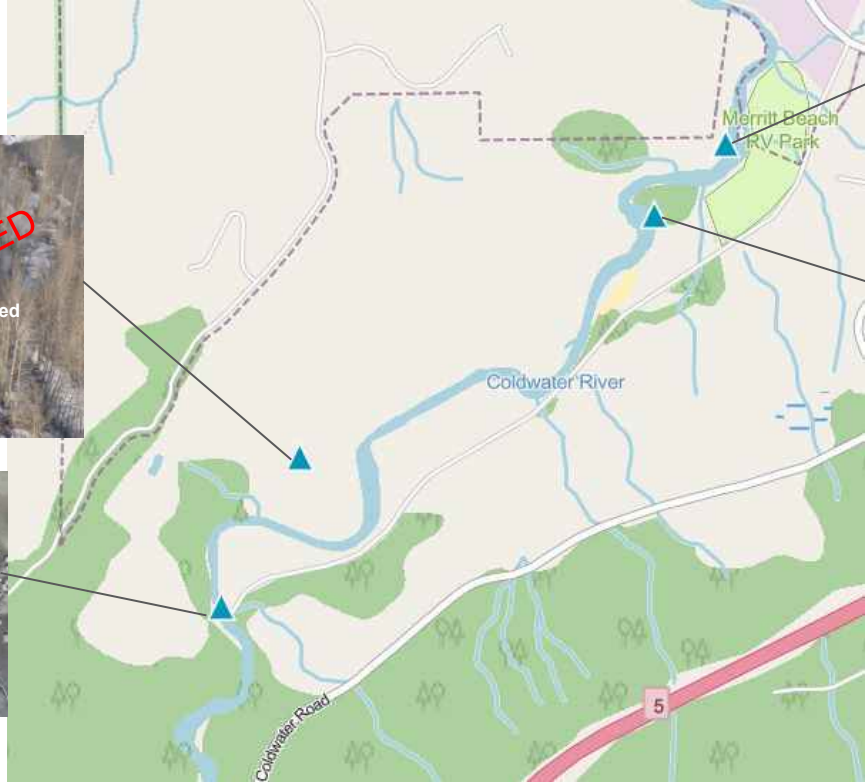
01. Nicola River - vehicles removed

| Location | Make | Model | Removal date |
|----------|------------|-----------------|--------------|
| NI101.1 | Unknown | Quad 2008 | 2022-04-23 |
| NI101.1 | Unknown | Quad Loncin | 2022-04-23 |
| NI101.1 | Unknown | Snow mobile | 2022-04-23 |
| NR-16 | Ford | Focus | Landowner |
| NR-16 | Ford | Focus | Landowner |
| NR-16 | Dodge | Caravan | Landowner |
| NR-16 | Chevy | Truck | Landowner |
| NI23.3 | Chevy | Truck | 2022-04-23 |
| NR-25 | Chevy | Cavalier | 2022-03-31 |
| NR-25 | Suzuki | Grand Vitara | 2022-04-05 |
| NR-29 | Toyota | Truck | 2022-04-20 |
| NR-26 | Chevy | TBC | 2022-04-25 |
| NR-26 | Ranger | Truck 1977 | 2022-04-25 |
| NR-26 | Swather | TBC | 2022-04-26 |
| NI4.2 | Ford | E-450 2004 | 2022-04-08 |
| NR-36 | Ford | Cab | 2022-04-08 |
| NR-36 | Ford | F150 Truck | 2022-03-22 |
| NR-36 | Ford | F150 | 2022-04-08 |
| NR-47 | Ford | F150 1997 | 2022-03-22 |
| NR-61 | Ford | F350 2000 | 2022-04-23 |
| NR-61 | Ford | Econoline E350 | 2022-04-23 |
| NR-61 | Unknown | Trailer 2021 | 2022-04-23 |
| NR-61 | Suzuki | Quad | 2022-04-23 |
| NR-61 | Unknown | Car 200 | 2022-04-23 |
| NR-4 | Truck | Unknown Vehicle | 2022-04-23 |
| NR-52 | Semi Truck | Unknown Vehicle | 2022-04-13 |
| NR-53 | Semi Truck | Unknown Vehicle | 2022-04-13 |

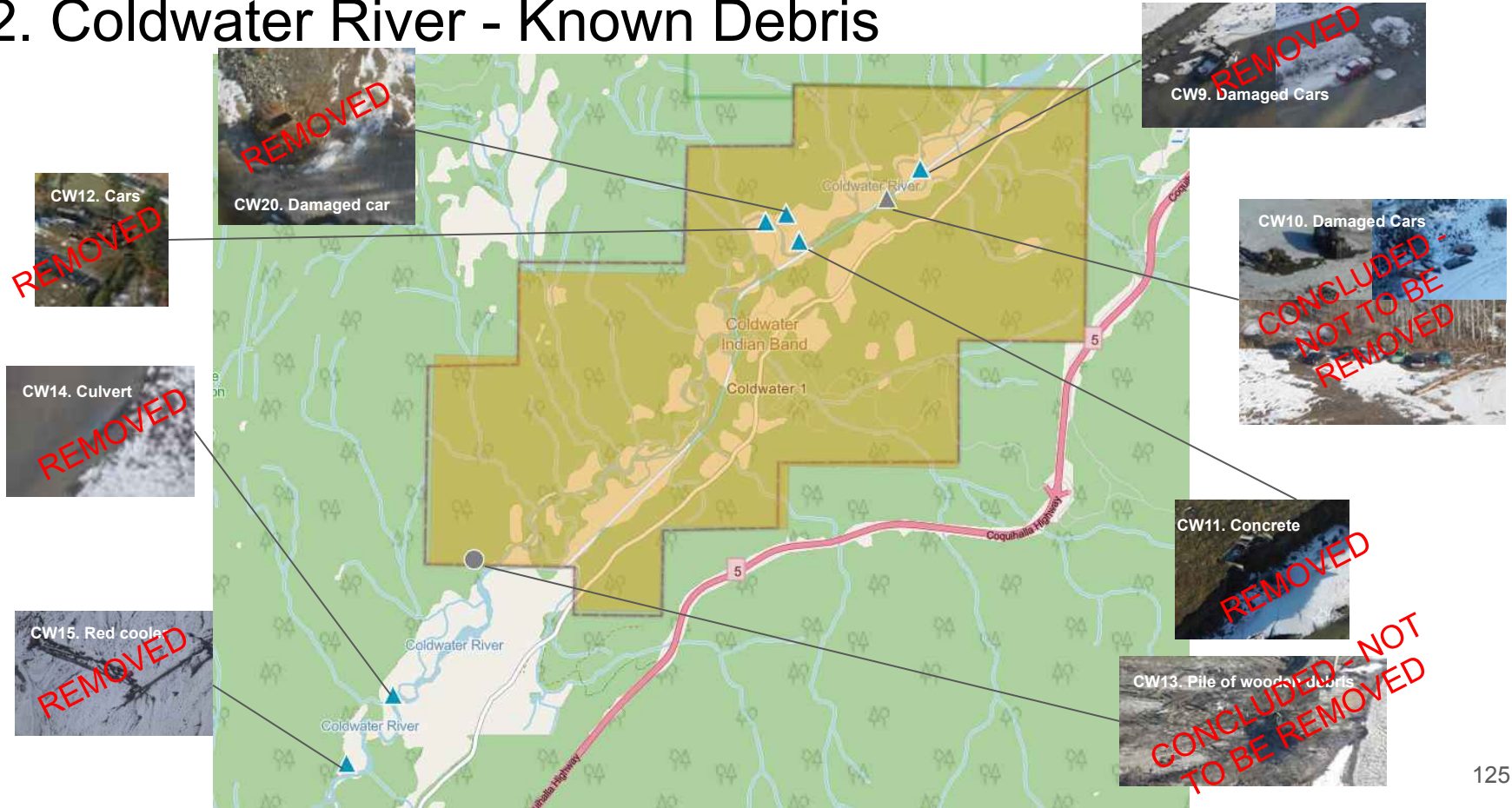
02. Coldwater River - Known Debris



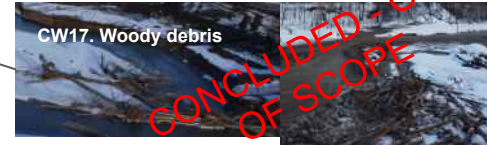
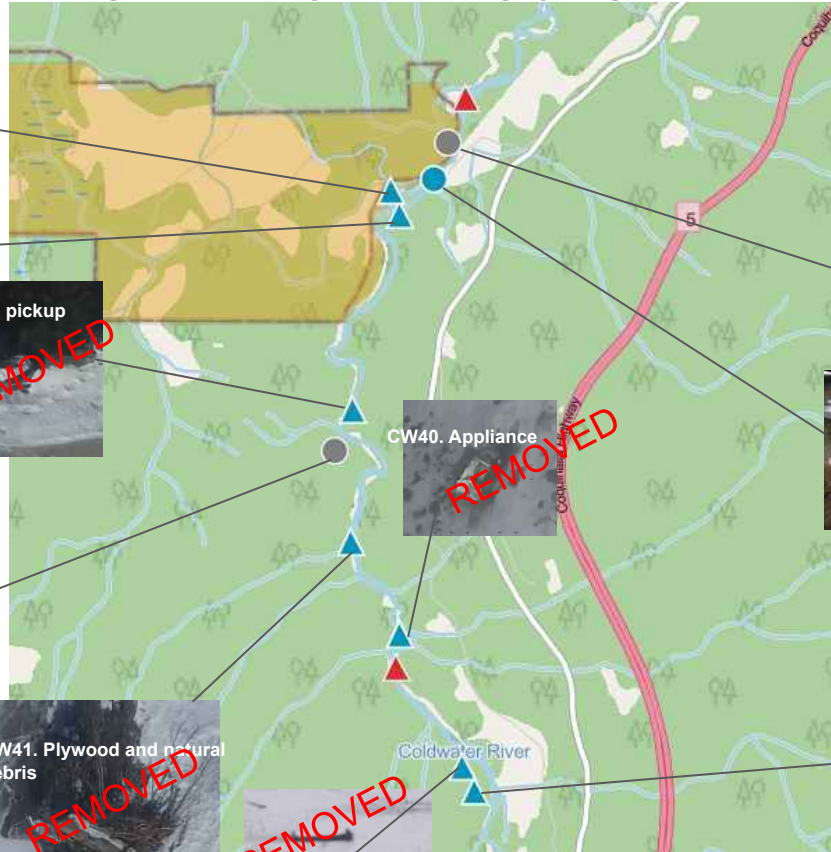
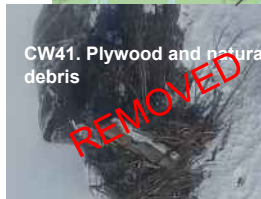
02. Coldwater River - Known Debris



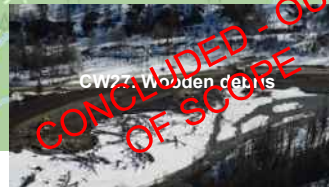
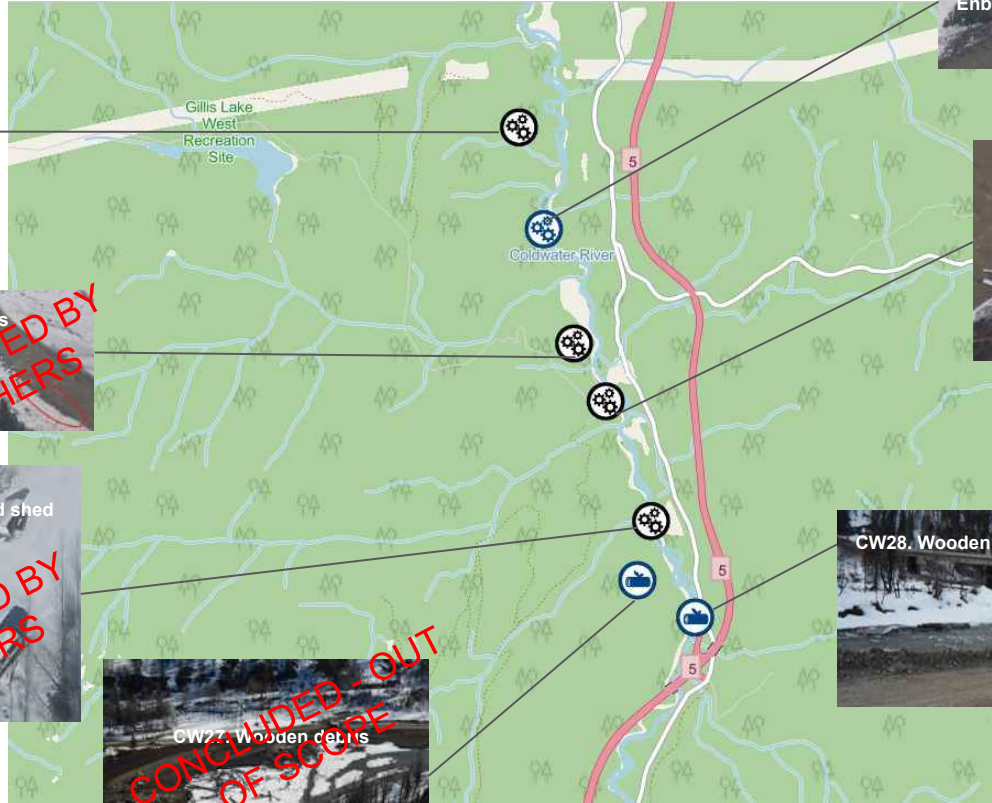
02. Coldwater River - Known Debris



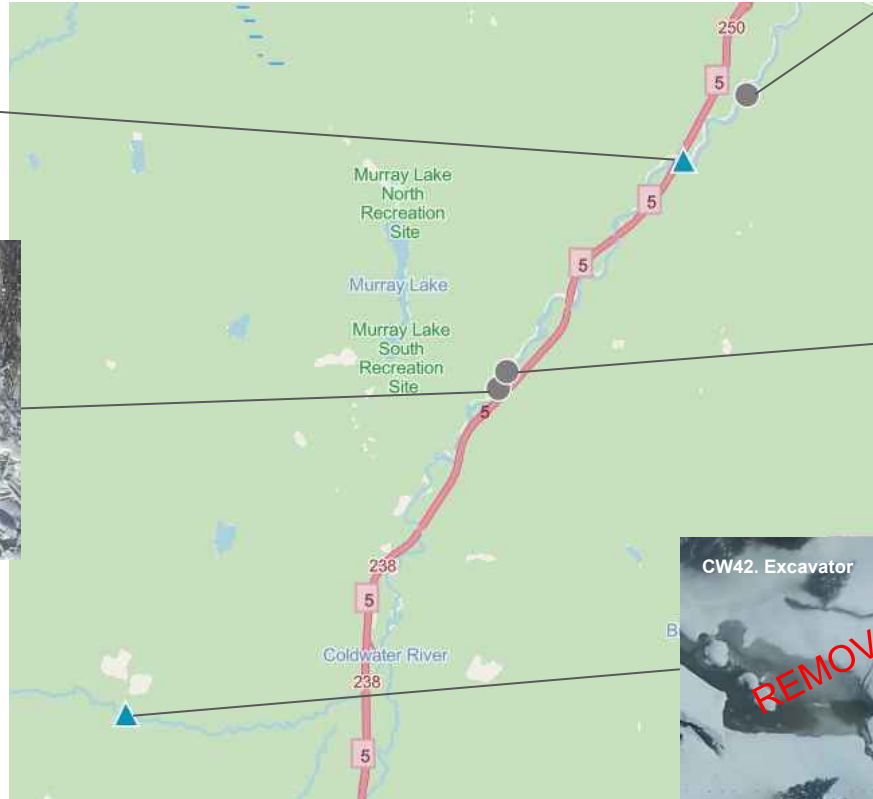
02. Coldwater River - Known Debris



02. Coldwater River - Known Debris



02. Coldwater River - Known Debris



02. Coldwater River

| Map ID | Contract or ID* | Description | Type | Status | Removal date |
|--------|-----------------|-----------------------------------|------------|--|--------------|
| CW-1 | | Pile of sediment | Natural | Identified in assessment with other sediment sites | |
| CW-2 | CW_01.9 | Damaged Middlesborough bridge | Human-made | Removed - pending direction from City of Merritt on standing section | 2022-03-10 |
| CW-3 | CW_02.0 | Red damaged car | Human-made | Removed | 2022-03-09 |
| CW-4 | CW_15.5 | Wooden track | Human-made | Removed | 2022-03-30 |
| CW-6 | CW_05.0 | Damaged house/shed | Human-made | Removed | 2022-04-12 |
| CW-7 | N/A | Various debris within river bed | Human-made | Removed | 2022-04-27 |
| CW-8 | | Sediment collapse from erosion | Natural | Identified in assessment with other sediment sites | |
| CW-9 | N/A | Damaged cars | Human-made | Removed | 2022-04-06 |
| CW-11 | CW_15.0 | Concrete structure | Human-made | Removed | 2022-04-06 |
| CW-12 | CW_15.5 | Cars | Human-made | Removed | 2022-04-27 |
| CW-14 | CW_23.0 | Culvert | Human-made | Removed | 2022-04-27 |
| CW-15 | CW_25.0 | Red cooler | Human-made | Removed | 2022-04-06 |
| CW-16 | N/A | Metal debris | Human-made | Removed | 2022-04-27 |
| CW-18 | N/A | Farming equipment | Human-made | Removed | 2022-04-06 |
| CW-20 | N/A | Damaged car | Human-made | Removed | 2022-04-06 |
| CW-21 | CW_32.4 | Steel culvert | Human-made | Removed | 2022-04-27 |
| CW-22 | N/A | Vehicles and various other debris | Human-made | Removed | 2022-05-04 |
| CW-26 | CW_38.2 | White trailer, woody debris | Human-made | Removed | 2022-04-12 |
| CW-30 | N/A | Metal pipe | Human-made | Removed | 2022-04-27 |
| CW-32 | N/A | Truck | Human-made | Removed | 2022-04-13 |
| CW-35 | N/A | Plywood along river bank | Human-made | Removed | 2022-04-27 |
| CW-36 | N/A | Red barrel | Human-made | Removed | 2022-04-13 |
| CW-40 | N/A | Appliance | Human-made | Removed | 2022-04-27 |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

02. Coldwater River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|---|------------|---------------------------------------|--------------|
| CW-41 | N/A | Plywood entangled in woody debris | Human-made | Removed | 2022-04-27 |
| CW-42 | JC_4.8 | Excavator | Human-made | Removed | 2022-03-23 |
| CW-43 | CW_28.9 | White pickup truck | Human-made | Removed | 2022-05-04 |
| CW-45 | N/A | Number of barrels/drums | Human-made | Removed | 2022-04-06 |
| CW-46 | N/A | Plastic waste with natural debris | Human-made | Removed | 2022-05-04 |
| CW-47 | N/A | Blue pipe | Human-made | Removed | 2022-04-27 |
| CW-48 | N/A | Car | Human-made | Removed | 2022-03-09 |
| CW-23 | CW_35.0 | Red shed/house | Human-made | Removed | 2022-05-11 |
| CW-19 | CW_27.0 | Mobile home trailer | Human-made | Removed by Local Community | 2022-04-06 |
| CW-24 | CW_36.5 | Exposed pipeline | Human-made | Backfilled/Work completed by Enbridge | N/A |
| CW-25 | CW_37.6 | Pipes | Human-made | Removed by Others | 2022-04-20 |
| CW-37 | N/A | White pickup, trailer and cars | Human-made | Removed by Local Community | 2022-04-06 |
| CW-38 | N/A | Trailer, shed and other items along river | Human-made | Removed by Local Community | 2022-04-13 |
| CW-10 | CW_13.0 | Damaged cars | Human-made | Concluded - Out of Scope | N/A |
| CW-13 | N/A | Pile of wooden debris | Natural | Concluded - Not to be Removed | N/A |
| CW-17 | N/A | Woody debris | Natural | Concluded - Not to be removed | N/A |
| CW-27 | N/A | Wooden debris | Natural | Concluded - Not to be Removed | N/A |
| CW-28 | N/A | Wooden debris | Natural | Concluded - Not to be Removed | N/A |
| CW-29 | N/A | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| CW-31 | N/A | Wooden debris | Natural | Concluded - Not to be Removed | N/A |
| CW-33 | N/A | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| CW-34 | N/A | Woody debris | Natural | Concluded - Not to be Removed | N/A |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

02. Coldwater River - vehicles removed

| Location | Make | Model | Removal date |
|-----------------|-------------|----------------------|---------------------|
| CW-3 | Chevy | Nova | 2022-03-01 |
| CW-10 | Ford | Exploerer Sport 2001 | 2022-04-02 |
| CW-10 | Chrysler | Intrepid | 2022-04-04 |
| CW12 | Ford | Explorer | 2022-04-04 |
| CW-10 | Unknown | Snow mobile 550 EFI | 2022-04-04 |
| CW-43 | Ford | F250 | 2022-04-01 |
| CW-37 | Unknown | TBC | 2022-04-06 |
| CW-26 | Unknown | Camper Trailer | 2022-04-12 |
| CW52.5 | Dodge | RAM 3500 | 2022-04-25 |
| CW52.5 | GMC | Pontiac Montana 2022 | 2022-04-27 |
| CW52.5 | Ford | Windstar Van 1999 | 2022-04-27 |

03. Thompson River - known debris



03. Thompson River - known debris



03. Thompson River

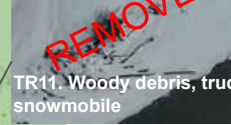
| Map ID | Description | Type | Status | Removal date |
|---------------|--|-------------|---------------|---------------------|
| THR-1 | Red object | Human-made | Removed | 2022-04-20 |
| THR-2 | Wood pieces and plastic mixed with natural debris | Human-made | Removed | 2022-04-27 |
| THR-3 | ATV in water, wood pieces and scraps mixed with natural debris | Human-made | Removed | 2022-04-27 |
| THR-4 | Plastic container, wood mixed with natural debris | Human-made | Removed | TBC |
| THR-7 | Telephone pole and transformer on shoreline | Human-made | Removed | 2022-04-20 |
| THR-8 | Trailer and wood pieces along the river banks | Human-made | Removed | 2022-04-20 |

04. Tulameen River - Known Debris



CONCLUDED - NOT TO BE REMOVED

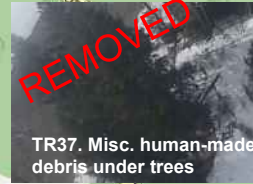
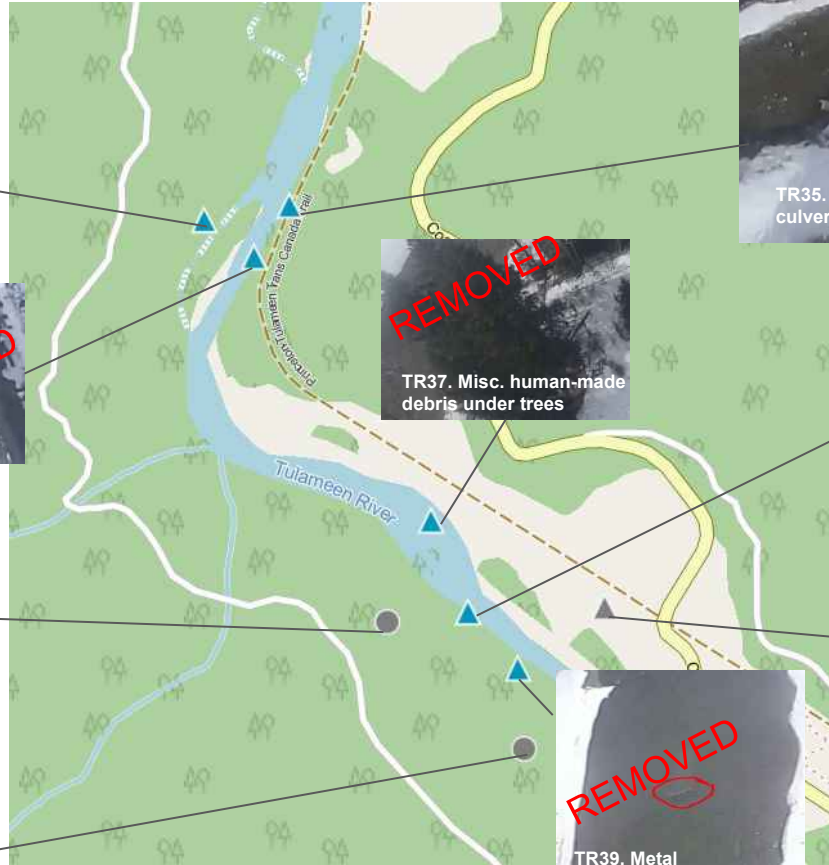
04. Tulameen River - Known Debris



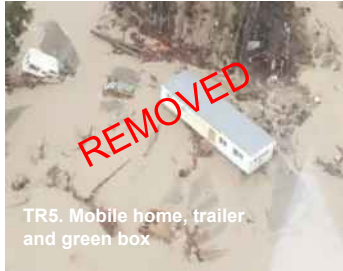
04. Tulameen River - Known Debris



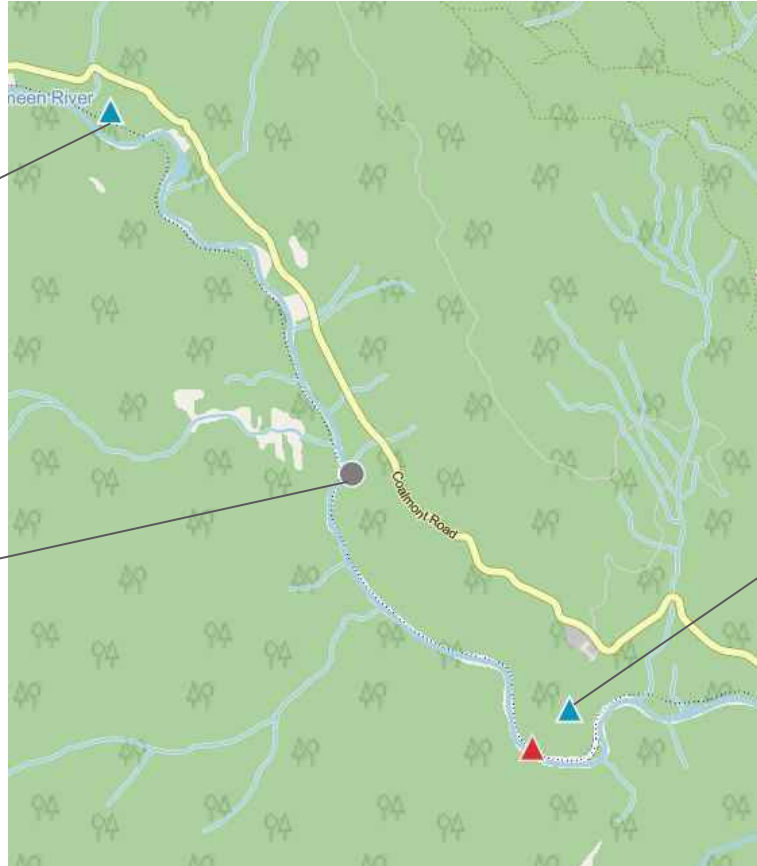
04. Tulameen River - Known Debris



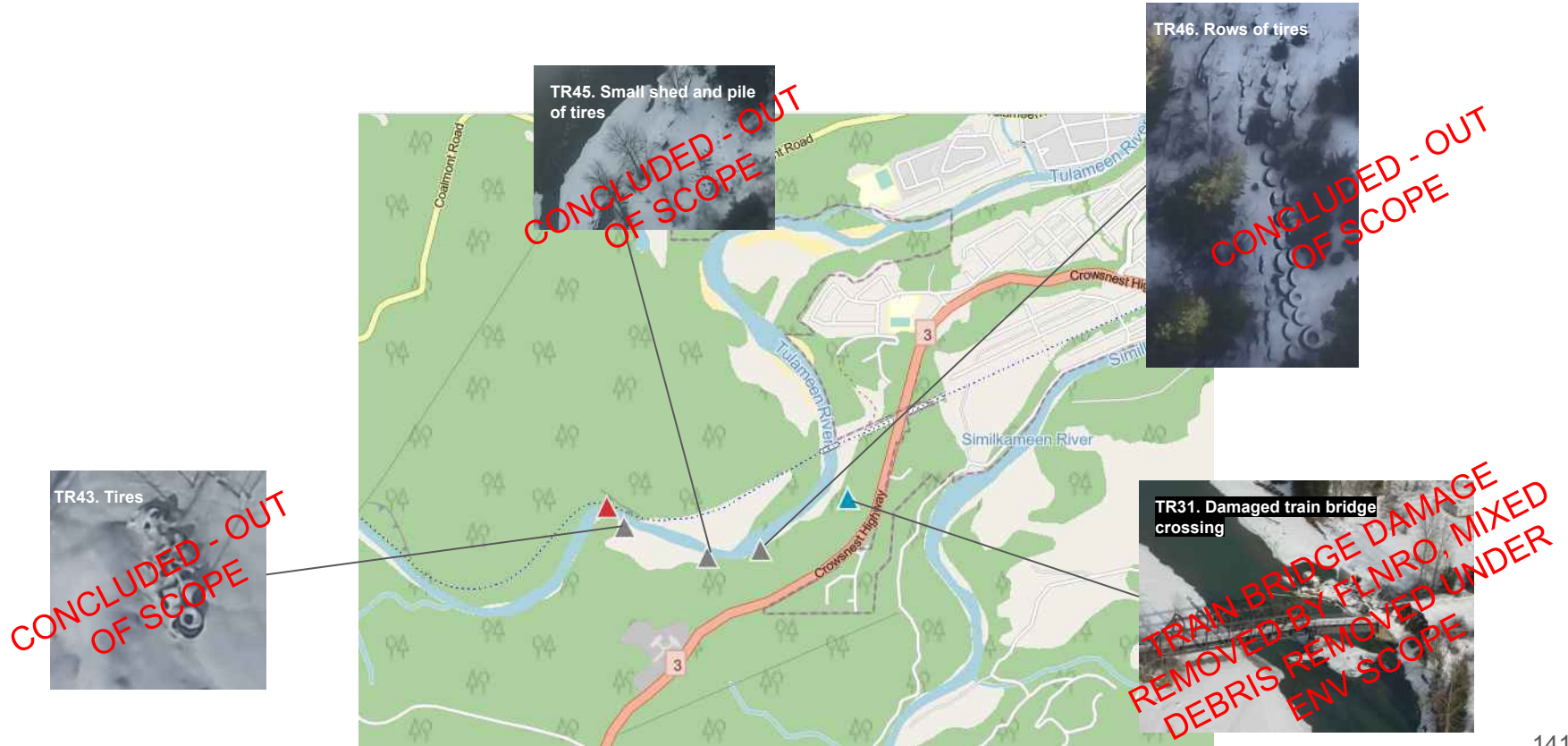
04. Tulameen River - Known Debris



04. Tulameen River - Known Debris



04. Tulameen River - Known Debris



04. Tulameen River

| Map ID | Description | Type | Status | Removal date |
|--------|---|------------|---------|--------------|
| TR-1 | Woody debris | Natural | Removed | 2022-04-27 |
| TR-2 | Woody debris | Natural | Removed | 2022-04-27 |
| TR-3 | Woody debris | Natural | Removed | 2022-04-27 |
| TR-4 | Woody debris | Natural | Removed | 2022-04-27 |
| TR-5 | Mobile home, trailer | Human-made | Removed | 2022-04-27 |
| TR-6 | Mobile home and other camping material | Human-made | Removed | 2022-04-27 |
| TR-7 | Woody debris | Natural | Removed | 2022-04-27 |
| TR-8 | Quad and cube van | Human-made | Removed | 2022-04-06 |
| TR-9 | Mobile home | Human-made | Removed | 2022-04-27 |
| TR-10 | Truck, cattle feed bunk, tires, grating, roof truss | Human-made | Removed | 2022-04-13 |
| TR-11 | Woody debris mixed with truck and snowmobile | Human-made | Removed | 2022-04-13 |
| TR-12 | Woody debris and human-made debris | Human-made | Removed | 2022-04-13 |
| TR-13 | Woody debris and human-made debris | Human-made | Removed | 2022-04-13 |
| TR-14 | Multiple natural debris including soil | Natural | Removed | 2022-04-13 |
| TR-21 | Unknown object | Human-made | Removed | 2022-04-13 |
| TR-26 | Motorhome | Human-made | Removed | 2022-04-20 |
| TR-27 | Travel trailer | Human-made | Removed | 2022-04-27 |
| TR-29 | Yellow bus | Human-made | Removed | 2022-04-06 |
| TR-30 | Culvert | Human-made | Removed | 2022-04-20 |
| TR-33 | Woody debris | Natural | Removed | 2022-04-27 |
| TR-35 | Concrete culverts by river | Human-made | Removed | 2022-04-20 |

04. Tulameen River

| Map ID | Description | Type | Status | Removal date |
|--------|--|------------|---|--------------|
| TR-36 | Concrete culvert piece | Human-made | Removed | 2022-04-20 |
| TR-37 | Misc. human-made debris under trees | Human-made | Removed | 2022-04-27 |
| TR-38 | Small trailer | Human-made | Removed | 2022-04-27 |
| TR-39 | Metal in river | Human-made | Removed | 2022-04-20 |
| TR-47 | Kayak and other debris | Human-made | Removed | 2022-04-20 |
| TR-49 | White SUV | Human-made | Removed | TBC |
| TR-50 | Buried backhoe | Human-made | Removed | 2022-04-13 |
| TR-51 | Truck | Human-made | Removed | 2022-04-13 |
| TR-52 | Two quads and cube van deck | Human-made | Removed | 2022-04-06 |
| TR-25 | Red sea can | Human-made | Removed by Local Community | N/A |
| TR-31 | Destroyed train bridge (FLNRO) | Human-made | Removed by FLNRO, debris beside the bridge removed by PwC | N/A |
| TR-40 | Piece of rail from rail bridge | Human-made | Removed by Local Community | N/A |
| TR-42 | Unknown debris - possibly ATC | Human-made | Removed by Local Community | N/A |
| TR-15 | Elevated level of river beds due to washed out soils | Natural | Concluded - Not to be Removed | N/A |
| TR-16 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-17 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-18 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-19 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-20 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-22 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-23 | Travel trailer and structure | Human-made | Concluded - Not to be Removed | N/A |
| TR-24 | Woody debris | Natural | Concluded - Not to be Removed | N/A |

04. Tulameen River

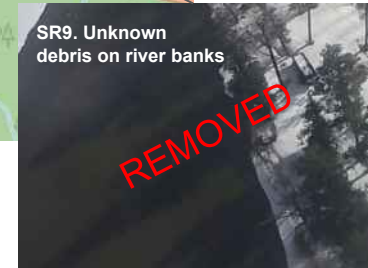
| Map ID | Description | Type | Status | Removal date |
|--------|------------------------------|------------|-------------------------------|--------------|
| TR-28 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-32 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-34 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-41 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| TR-43 | Pile of tires | Human-made | Concluded - Not to be Removed | N/A |
| TR-45 | Small shed and pile of tires | Human-made | Concluded - Not to be Removed | N/A |
| TR-46 | Row of tires | Human-made | Concluded - Not to be Removed | N/A |
| TR-48 | Woody debris around bridge | Natural | Concluded - Not to be Removed | N/A |

04. Tulameen River - vehicles removed

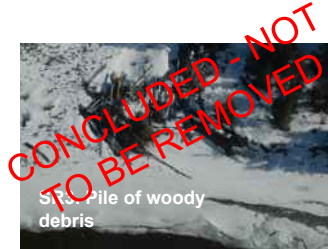
| Location | Make | Model | Removal date |
|----------|------------|----------------------|--------------|
| TR-8 | Hino | Cube Truck | 2022-04-05 |
| TR-8 | John Deere | 310SE Backhoe Loader | 2022-04-06 |
| TR-10 | Chevrolet | 1964 Truck | 2022-04-01 |
| TR-16 | Chevrolet | Tracker | 2022-04-01 |
| TR-26 | Keystone | Cougar | 2022-04 |

05. Similkameen River

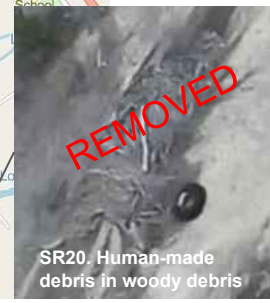
SR1. There is a red modular container (sea can) that has been pulled out of the river and is currently located a few metres off the side of Crossnest Hwy (unable to take photo because there was nowhere to pull off the road)



05. Similkameen River



05. Similkameen River



05. Similkameen River



05. Similkameen River

| Map ID | Description | Type | Status | Removal date |
|--------|---|------------|-------------------------------|--------------|
| SR-7 | Industrial parts | Human-made | Removed | 2022-04-20 |
| SR-9 | Various human-made debris on river banks | Human-made | Removed | 2022-04-20 |
| SR-11 | Tire on banks | Natural | Removed | 2022-04-27 |
| SR-13 | Unknown object | Human-made | Removed | 2022-05-04 |
| SR-17 | Larger silver vehicle, trailer, yellow car and woody debris | Human-made | Removed | 06-avr-22 |
| SR-18 | Canoe or boat beside the river | Human-made | Removed | 2022-05-04 |
| SR-20 | Human-made debris in woody debris | Human-made | Removed | 2022-04-27 |
| SR-21 | Tire entangled among wooden debris | Human-made | Removed | 2022-04-27 |
| SR-22 | Canopy beside the river | Human-made | Removed | 2022-05-04 |
| SR-5 | Metal containers, pallets and other human made debris | Human-made | Removed by Local Community | 2022-04-16 |
| SR-8 | Pickup truck | Human-made | Removed by Local Community | 2022-03-23 |
| SR-16 | Silver car | Human-made | Removed by Local Community | 2022-03-23 |
| SR-1 | Red modular sea can | Human-made | Concluded - Not to be Removed | N/A |
| SR-2 | Damaged structure | Human-made | Concluded - Not to be Removed | N/A |
| SR-3 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| SR-4 | Wooden structure | Human-made | Concluded - Not to be Removed | N/A |
| SR-6 | Log piles | Natural | Concluded - Not to be Removed | N/A |
| SR-10 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| SR-12 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| SR-14 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| SR-15 | Woody debris | Natural | Concluded - Not to be Removed | N/A |

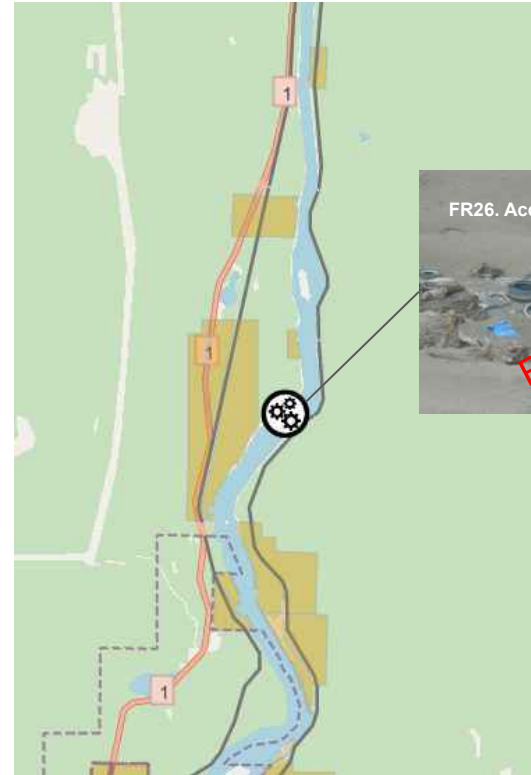
05. Similkameen River - vehicles removed

| Location | Make | Model | Removal date |
|----------|------|---------|--------------|
| SR-17 | Ford | Unknown | 2022-04-12 |

06. Fraser River

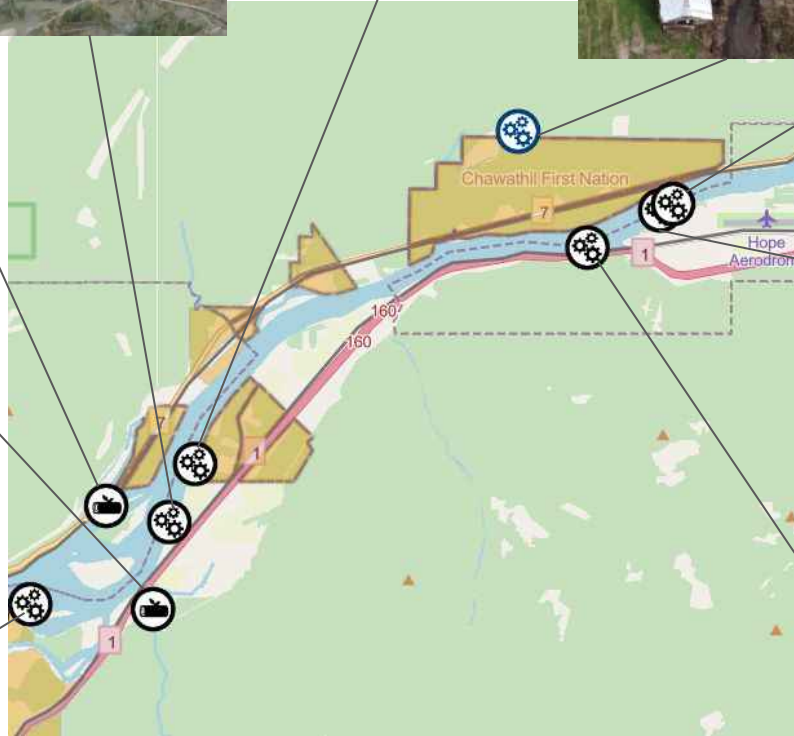


FR4. Woody Debris

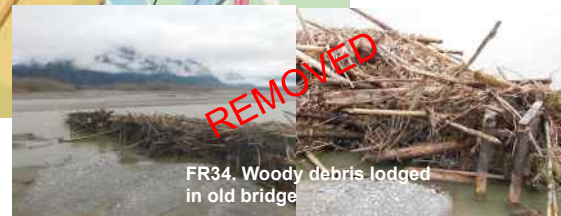
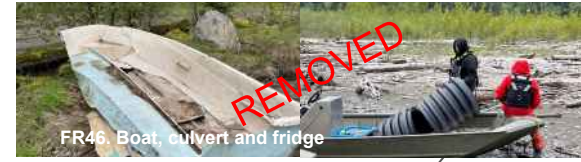
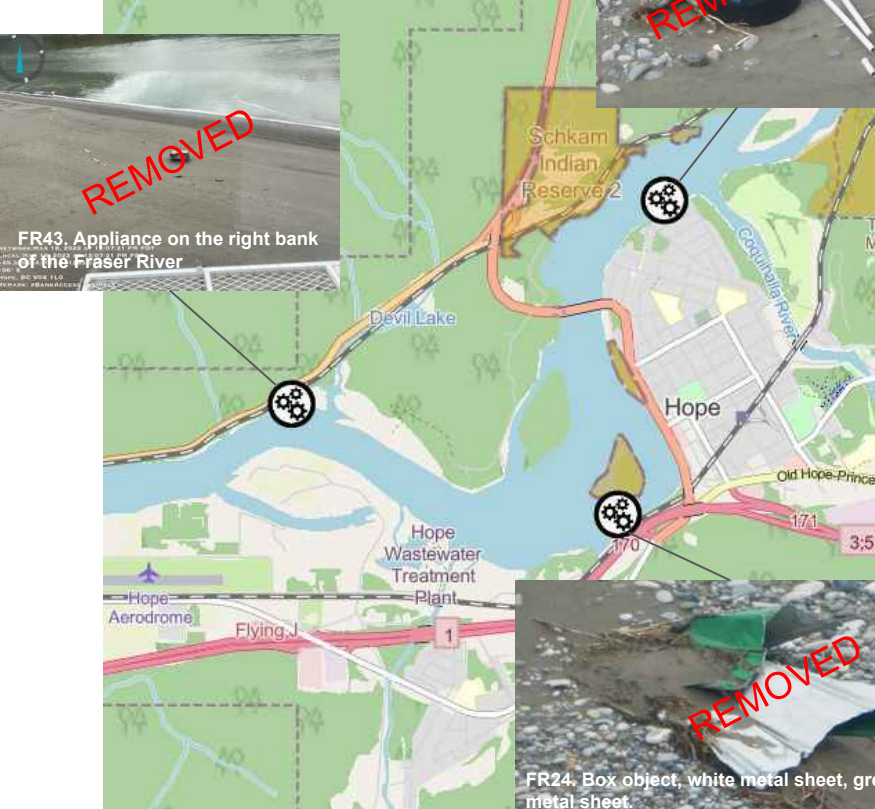


FR26. Accumulation of tires

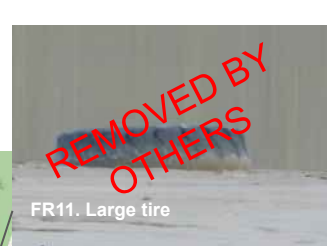
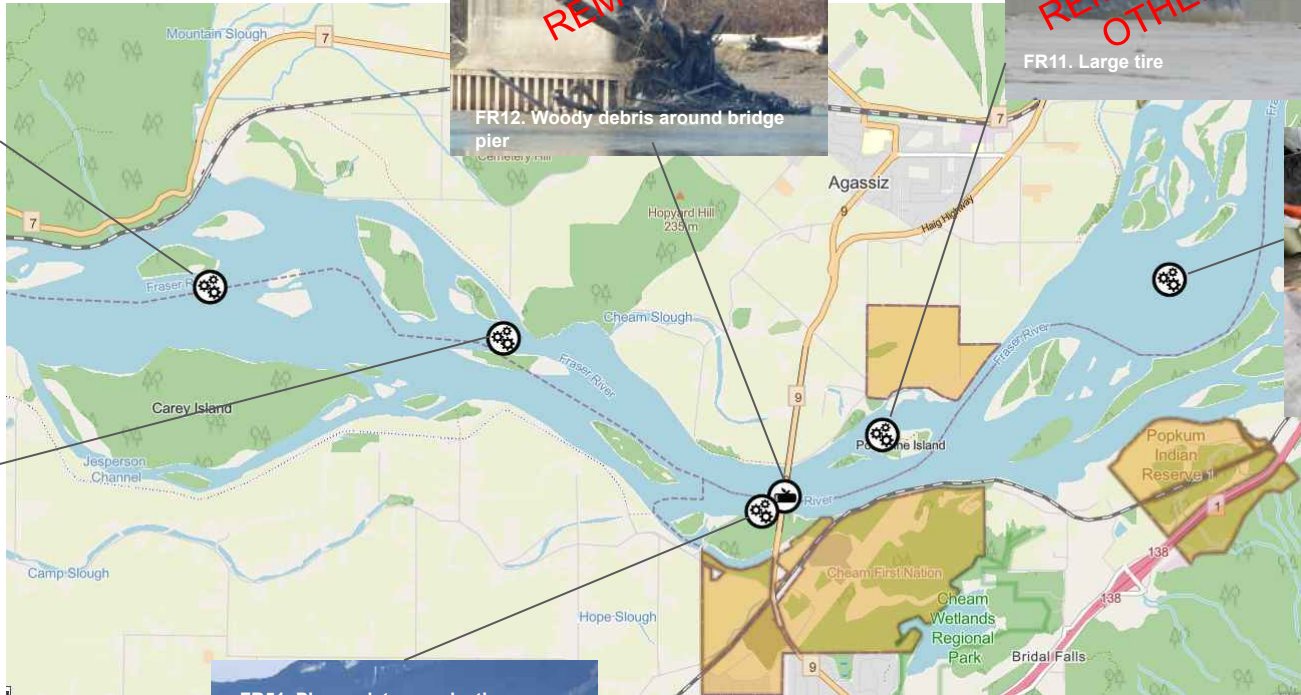
06. Fraser River



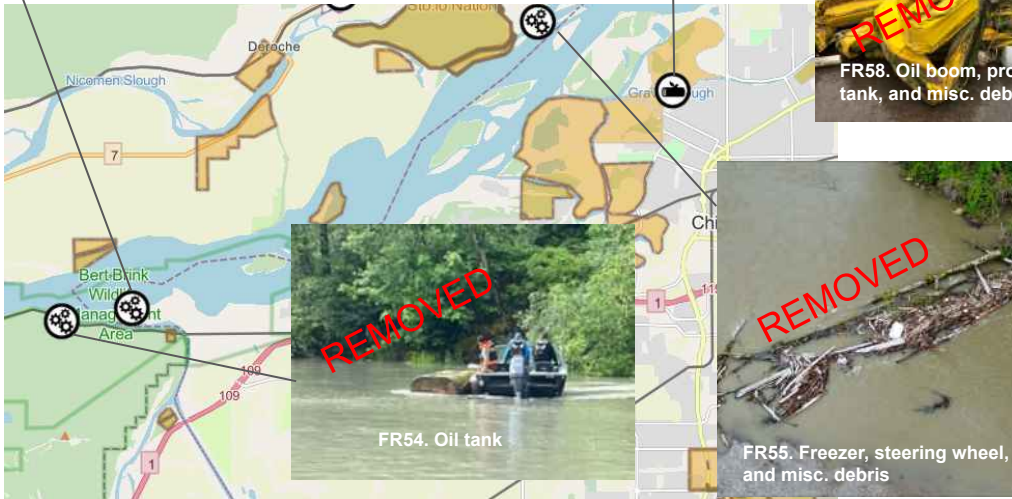
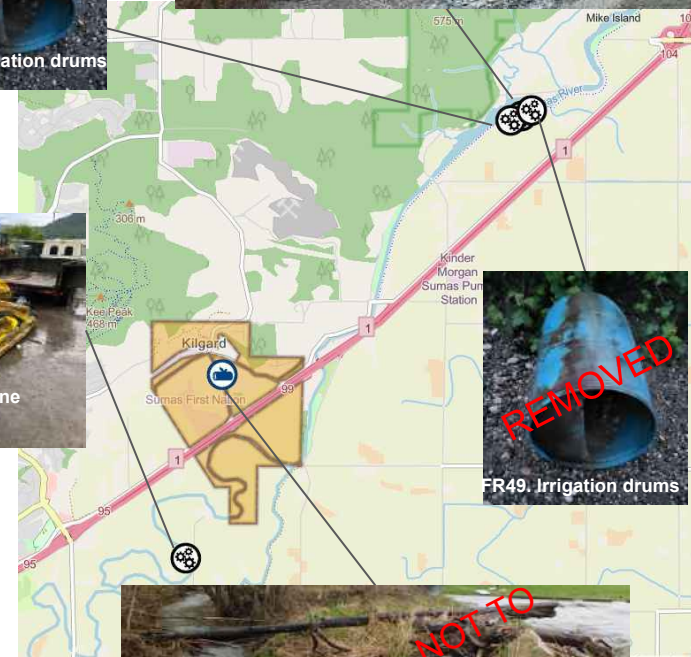
06. Fraser River



06. Fraser River



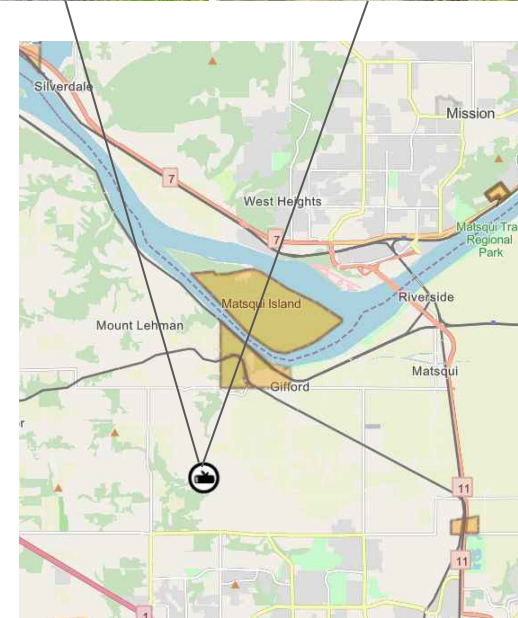
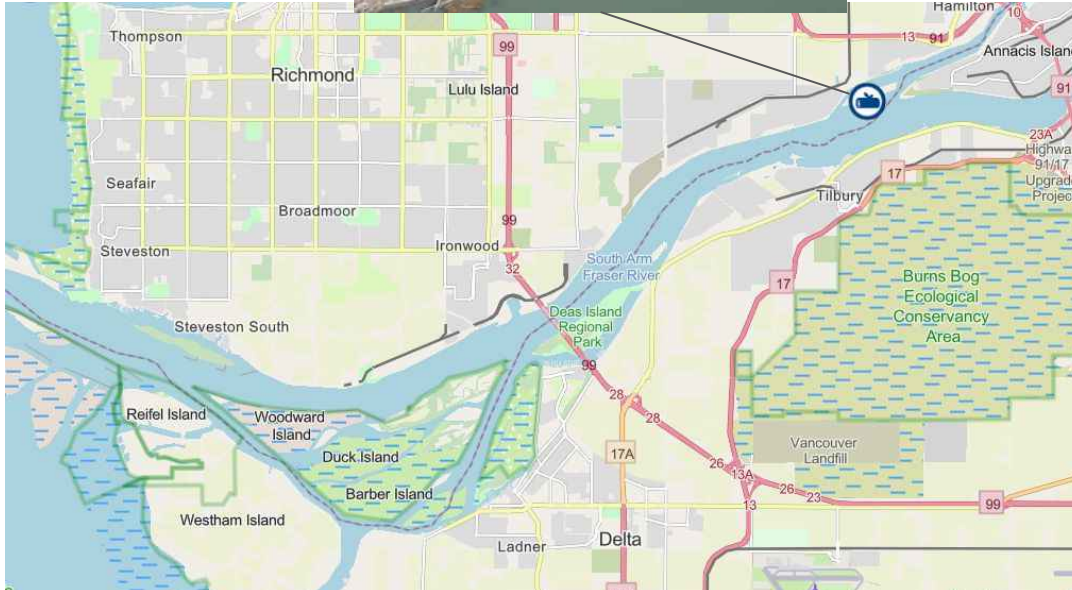
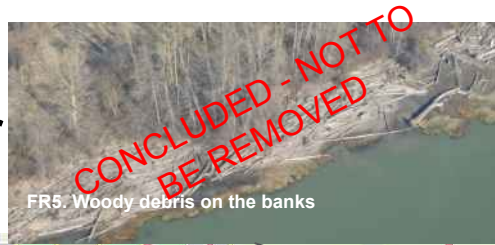
06. Fraser River



06. Fraser River



06. Fraser River



06. Fraser River

| Map ID | Description | Type | Status | Removal date |
|--------|--|------------|---------|--------------|
| FR-3 | Natural debris and sand/rocks at base of culvert | Human-made | Removed | 2022-05-11 |
| FR-18 | Fridge and other human made debris | Human-made | Removed | 2022-05-20 |
| FR-20 | Human-made box like object | Human-made | Removed | 2022-05-11 |
| FR-21 | Boat debris, other smaller human-made debris in vicinity | Human-made | Removed | 2022-05-20 |
| FR-24 | Box object, white metal sheet, green metal sheet | Human-made | Removed | 2022-05-12 |
| FR-12 | Woody debris around pier cap | Natural | Removed | 2022-05-18 |
| FR-25 | White metal sheet, multiple tires | Human-made | Removed | 2022-04-20 |
| FR-26 | Accumulation of tires beside the river, red metal sheet | Human-made | Removed | 2022-05-11 |
| FR-34 | Woody debris lodged in old bridge | Natural | Removed | 2022-05-20 |
| FR-37 | Hot water tank | Human-made | Removed | 2022-05-11 |
| FR-41 | Appliances | Human-made | Removed | 2022-05-20 |
| FR-42 | Tire located on left bank | Human-made | Removed | 2022-05-20 |
| FR-43 | Appliance on right bank | Human-made | Removed | 2022-05-20 |
| FR-44 | Wood Accumulation on Bridge Pier | Human-made | Removed | 2022-05-26 |
| FR-45 | Two cars on the side of the river | Human-made | Removed | 2022-05-24 |
| FR-46 | Boat, culvert and fridge | Human-made | Removed | 2022-05-20 |
| FR-47 | Misc. human-made debris | Human-made | Removed | 2022-05-18 |
| FR-48 | Irrigation drums | Human-made | Removed | 2022-06-06 |
| FR-49 | Irrigation drums | Human-made | Removed | 2022-06-06 |
| FR-50 | Irrigation drums | Human-made | Removed | 2022-06-06 |
| FR-51 | Plywood, tarps, plastic bags | Human-made | Removed | 2022-05-26 |
| FR-52 | Garbage can and misc. debris | Human-made | Removed | 2022-05-26 |

06. Fraser River

| Map ID | Description | Type | Status | Removal date |
|--------|---|------------|--------------------------|--------------|
| FR-53 | Plywood and misc. debris | Human-made | Removed | 2022-05-26 |
| FR-54 | Oil tank | Human-made | Removed | 2022-06-04 |
| FR-55 | Freezer, steering wheel, and misc. debris | Human-made | Removed | 2022-06-09 |
| FR-56 | Tire | Human-made | Removed | 2022-05-30 |
| FR-57 | Woody debris | Natural | Removed | 2022-06-10 |
| FR-58 | Oil boom, propane tank, and misc. debris | Human-made | Removed | 2022-06-03 |
| FR-62 | Old dock | Human-made | Removed | 2022-06-09 |
| FR-63 | Old dock | Human-made | Removed | 2022-06-09 |
| FR-64 | Old dock | Human-made | Removed | 2022-06-09 |
| FR-65 | Fridge | Human-made | Removed | 2022-06-09 |
| FR-1 | Large volume of natural debris | Natural | Removed by Others | 2022-06-24 |
| FR-11 | Large tire | Human-made | Removed by Others | 2022-06-22 |
| FR-36 | Freezer | Human-made | Removed by Others | 2022-05-24 |
| FR-61 | Woody debris | Natural | Removed by Others | 2022-06-17 |
| FR-4 | Woody debris | Natural | Concluded - Out of Scope | N/A |
| FR-5 | Woody debris on the banks | Natural | Concluded - Out of Scope | N/A |
| FR-17 | Woody debris by culvert | Natural | Concluded - Out of Scope | N/A |
| FR-27 | Shanty houses beside a creek | Human-made | Concluded - Out of Scope | N/A |
| FR-38 | Woody debris | Natural | Concluded - Out of Scope | N/A |

07. Chilliwack River & Vedder River/Canal



07. Chilliwack River & Vedder River/Canal

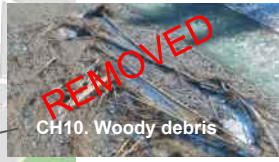
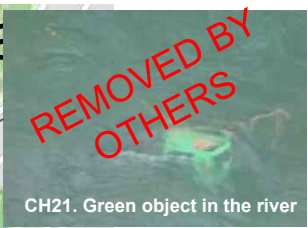
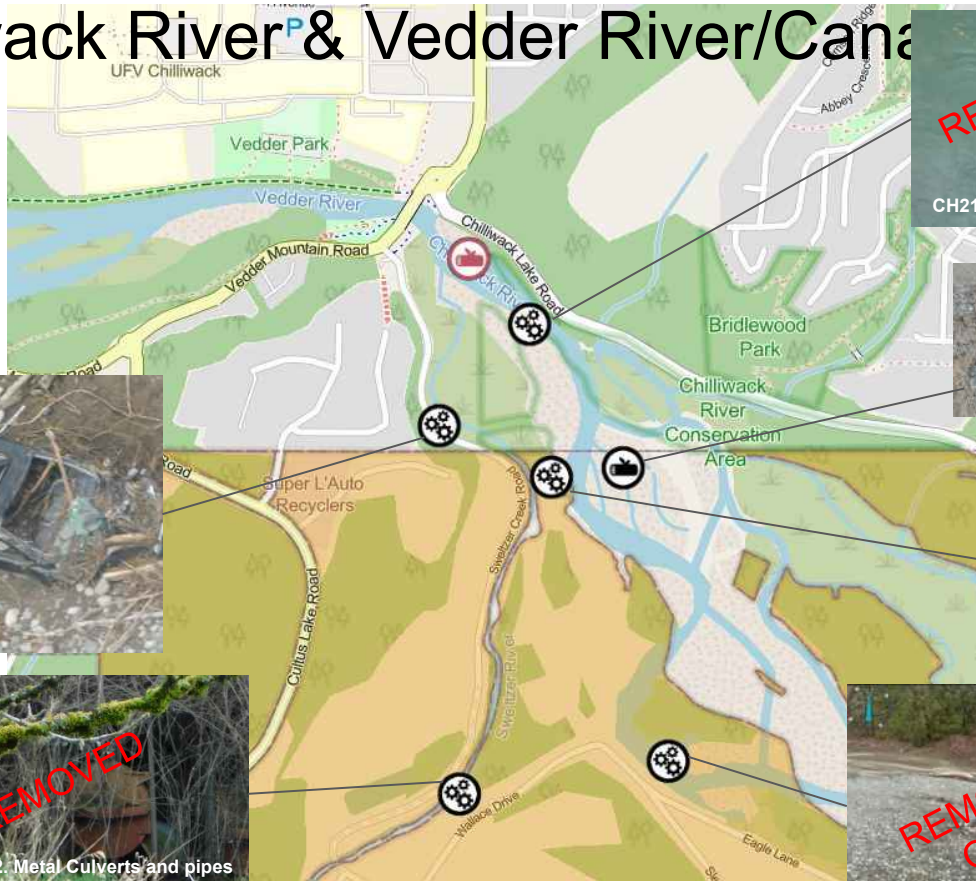


CH19. Abandoned van, ladders, pipes freight containers, trailer

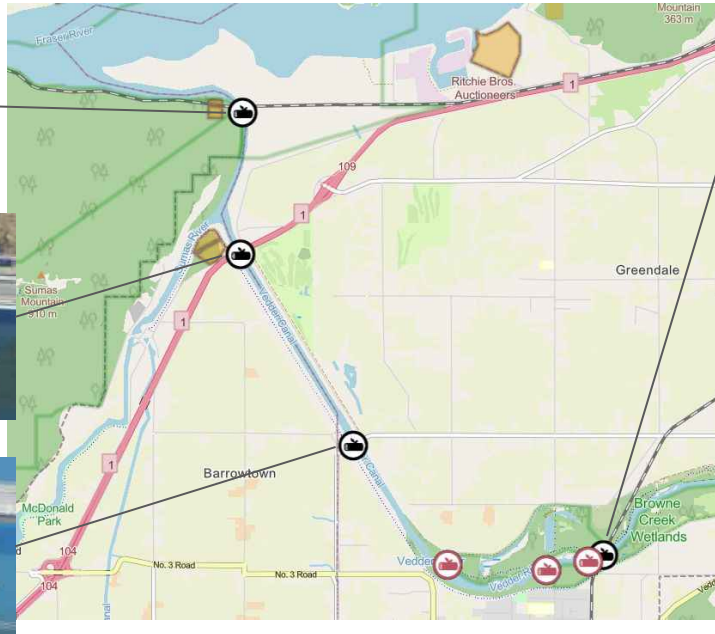


CH26. Two boom lifts

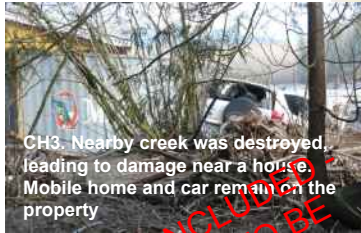
07. Chilliwack River & Vedder River/Canal



07. Chilliwack River & Vedder River/Canal



07. Chilliwack River & Vedder River/Canal



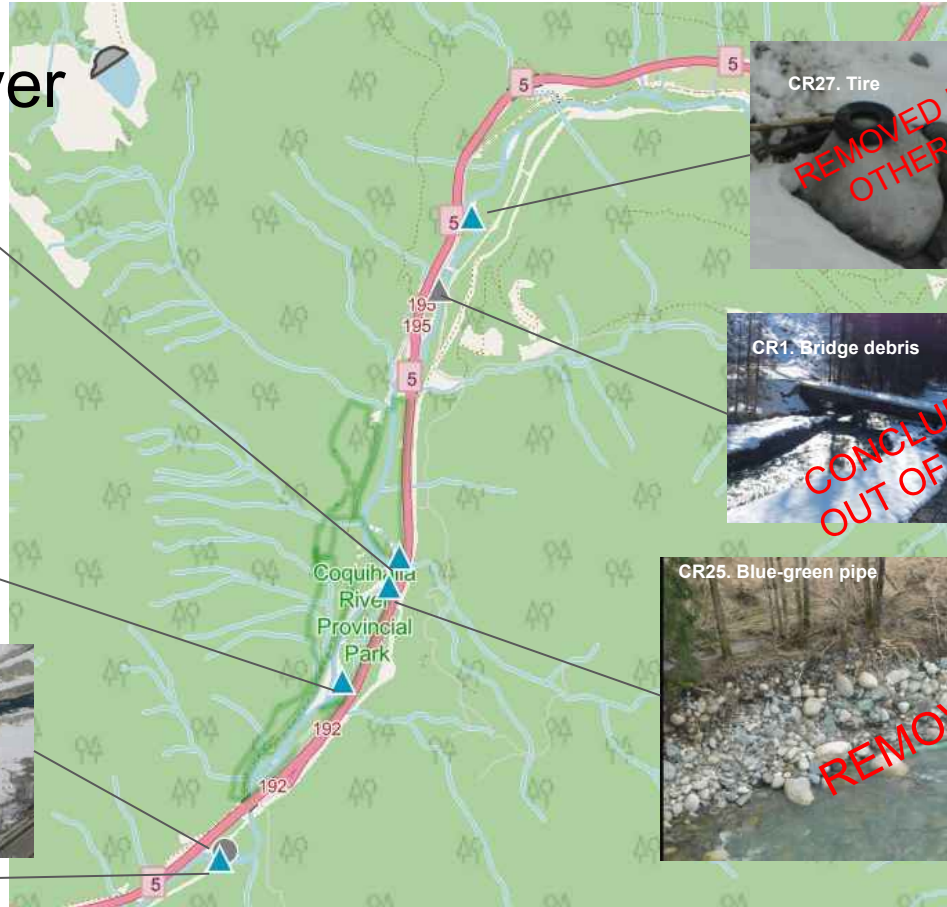
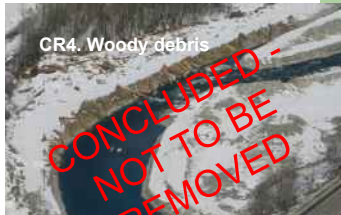
07. Chilliwack River & Vedder River/Canal

| Map ID | Contract or ID* | Description | Type | Status | Removal date |
|--------|-----------------|--|------------|--|--------------|
| CH-2 | | Two bridges with natural debris dams | Natural | Removed | 2022-05-20 |
| CH-4 | | Woody debris | Natural | Removed | 2022-05-18 |
| CH-5 | | Woody debris at piers | Natural | Removed | 2022-05-24 |
| CH-10 | | Woody debris | Natural | Removed | TBD |
| CH-17 | | Green wooden planks, picnic table intertwined with wooden debris | Human-made | Removed | 2022-05-28 |
| CH-18 | | Green fragments of a pipe, metal culvert | Human-made | Removed | 2022-05-28 |
| CH-19 | | Abandoned cars, ladders, pipes, freight containers, trailer | Human-made | Removed | 2022-05-28 |
| CH-22 | | Metal pipes/culverts | Human-made | Removed | 2022-05-26 |
| CH-24 | | Porta john located in the woody debris | Human-made | Removed | 2022-05-28 |
| CH-25 | | Culvert among the woody debris | Human-made | Removed | 2022-05-28 |
| CH-26 | | Two boom lifts | Human-made | Removed | 2022-05-18 |
| CH-27 | CH-9 | Southern rail woody debris | Natural | Removed | 2022-05-30 |
| CH-28 | | Green fragment in wooden pile | Human-made | Removed | 2022-05-26 |
| CH-20 | | Black Truck | Human-made | Removed by Others | 2022-05-19 |
| CH-21 | | Green object in the river | Human-made | Removed by Others | TBD |
| CH-23 | | Damaged vehicle buried in sediment east of Sweltzer Creek campground | Human-made | Removed by Others | 2022-05-19 |
| CH-3 | | Damage near house due to creek being destroyed, mobile home and car | Human-made | Concluded - Out of Scope | N/A |
| CH-15 | | Excess sediment | Natural | Identified in assessment with other sediment sites | |

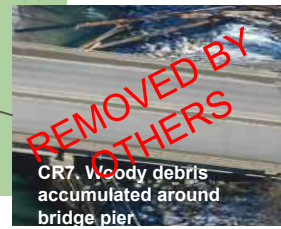
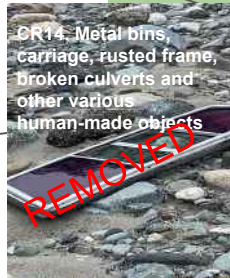
08. Coquihalla River



08. Coquihalla River

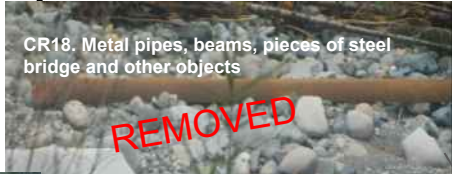


08. Coquihalla River



08. Coquihalla River

CR18. Metal pipes, beams, pieces of steel bridge and other objects



CR5. Damaged silver car



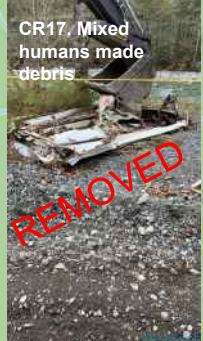
CR22. Metal frame, metal culvert



CR17. Mixed humans made debris



CR17. Mixed humans made debris



CR21. Plastic looking debris



CR19. Silver truck, rusted frame of a truck



CR17. Mixed humans made debris



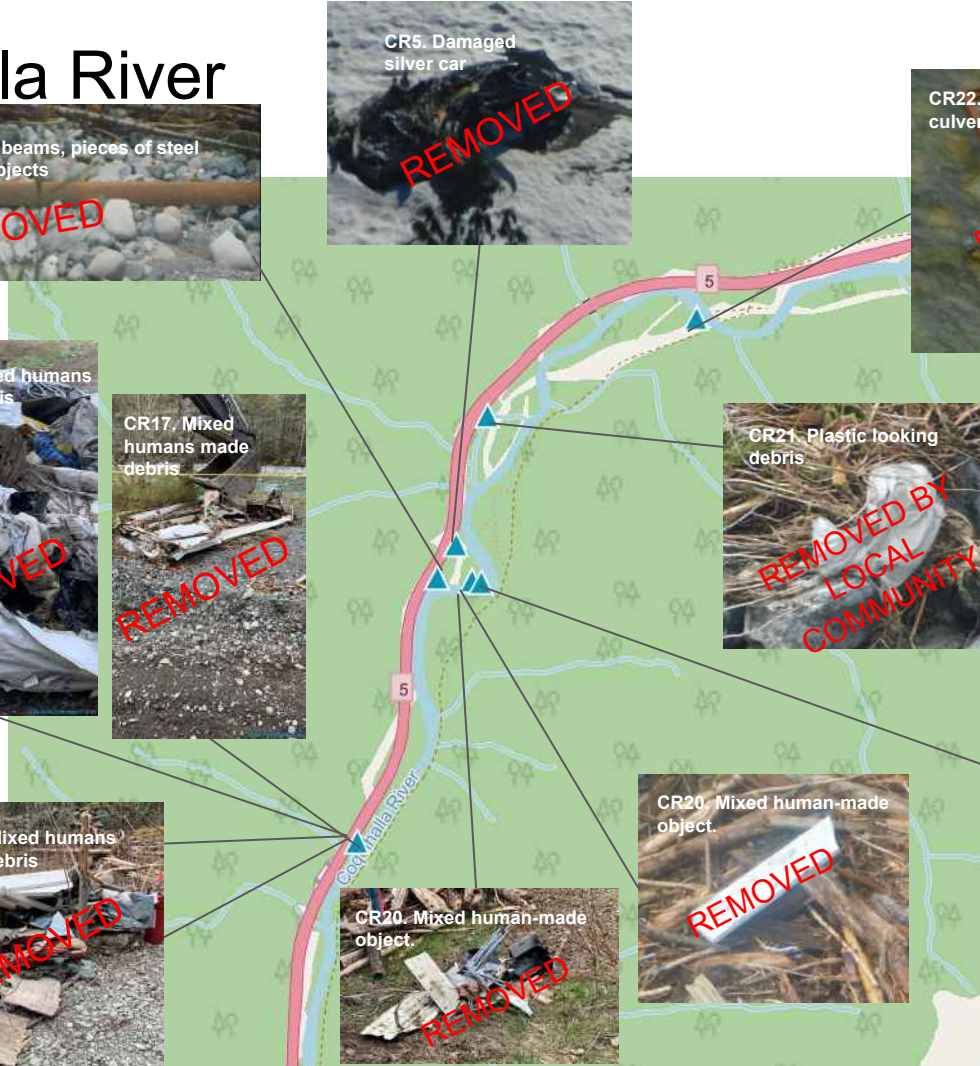
CR17. Mixed humans made debris



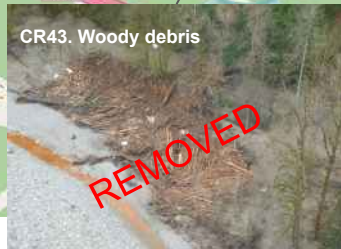
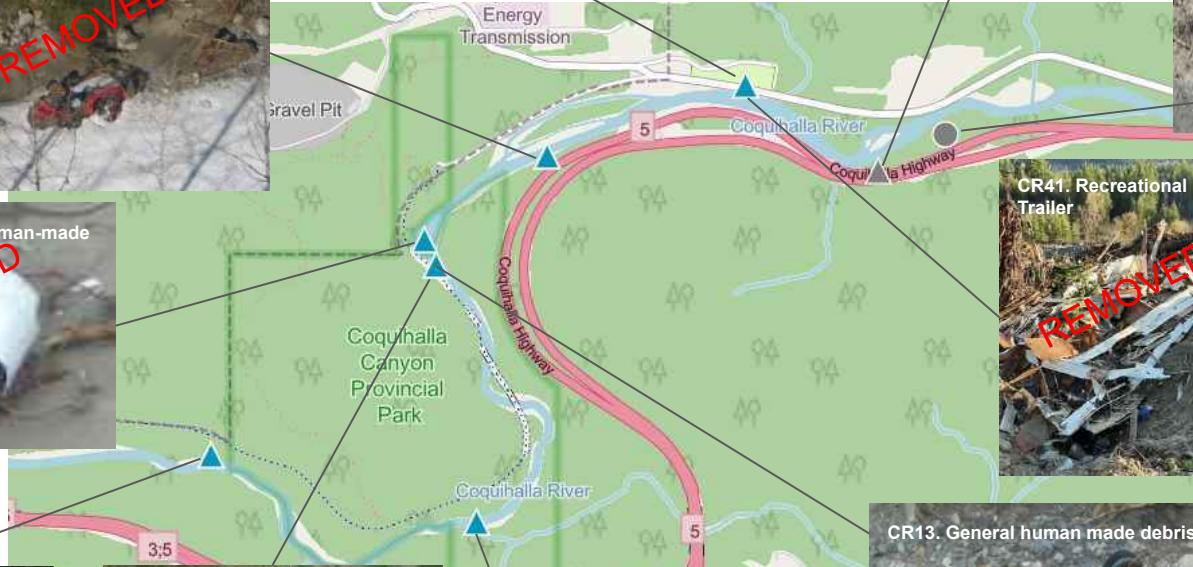
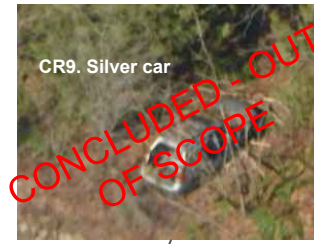
CR20. Mixed human-made object.



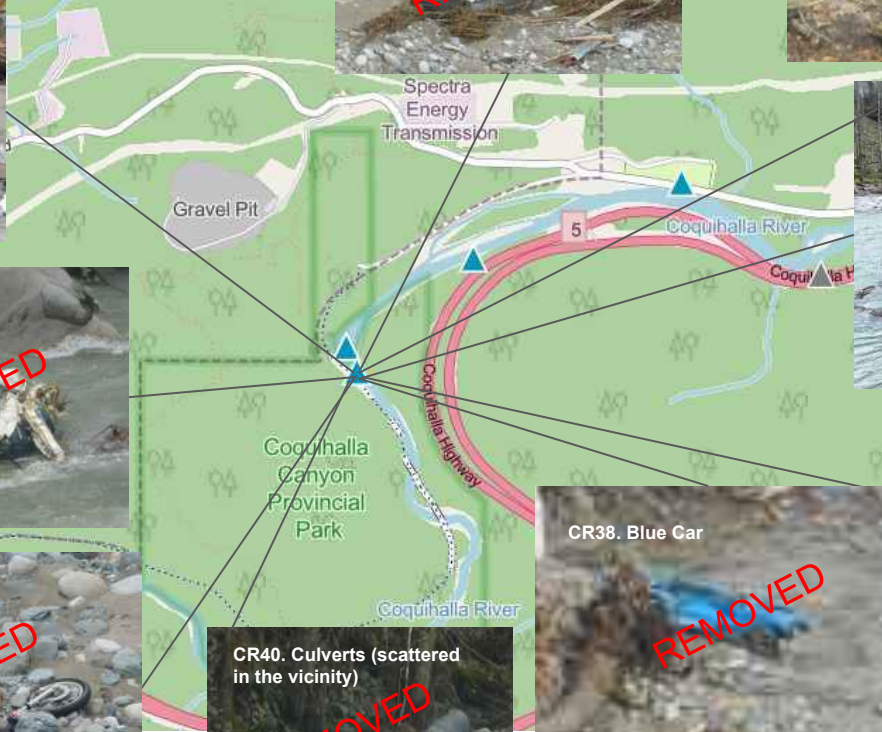
CR20. Mixed human-made object.



08. Coquihalla River

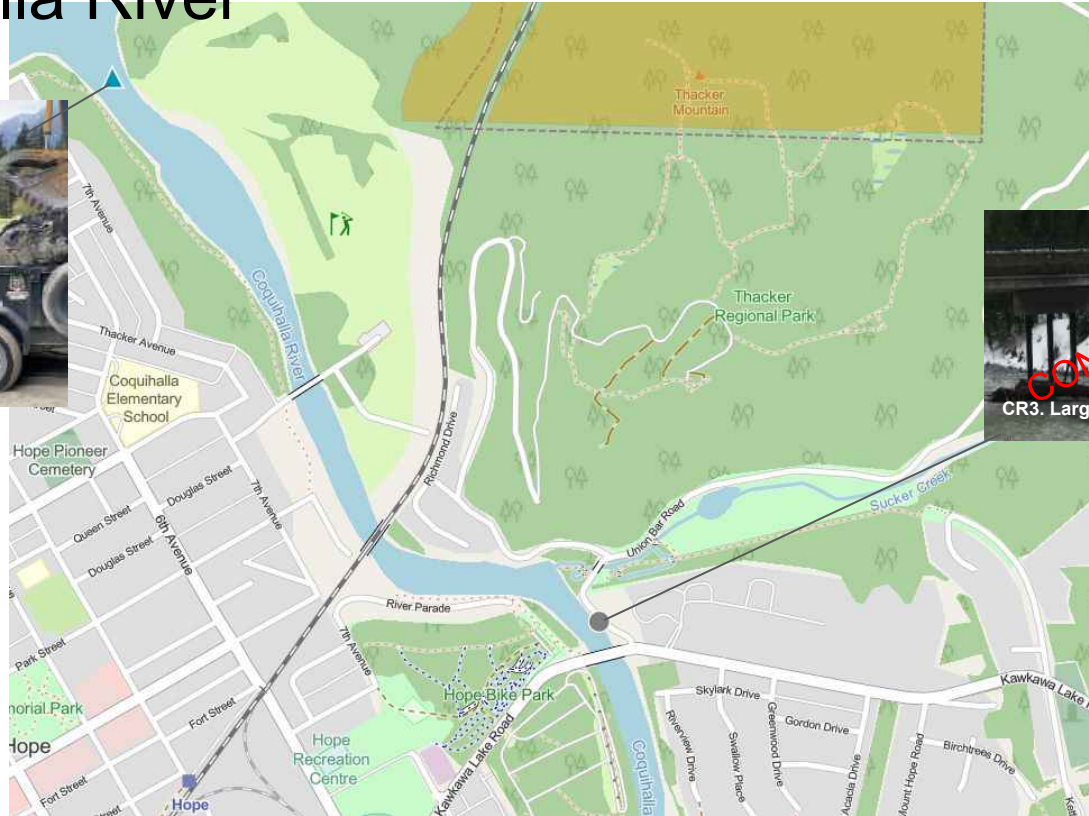


08. Coquihalla River



Debris Site CR13 additional human made debris was found mixed with woody debris. This highlights some of the items found in the area.

08. Coquihalla River



08. Coquihalla River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|--|------------|---|--------------|
| CR-2 | CR2 | General debris | Human-made | Removed | 2022-04-13 |
| CR-5 | CR5 | Damaged silver car | Human-made | Removed | 2022-05-04 |
| CR-6 | CR6 | Silver car | Human-made | Removed | 2022-04-13 |
| CR-10 | CR2 | Red car | Human-made | Removed | 2022-04-06 |
| CR-12 | CR12 | Various different human-made objects | Human-made | Removed | 2022-04-13 |
| CR-13 | CR13 | General human made debris | Human-made | Removed | 2022-04-13 |
| CR-14 | CR14 | Metal bins, carriage, rusted frame, broken culverts and other various human-made objects | Human-made | Removed | 2022-04-27 |
| CR-17 | CR17 | Mixed human made debris | Human-made | Removed | 2022-04-20 |
| CR-18 | CR18 | Metal pipes, beams, pieces of steel bridge and other objects | Human-made | Removed | 2022-05-04 |
| CR-19 | CR19 | Silver truck, rusted frame of a truck | Human-made | Removed | 2022-04-27 |
| CR-20 | CR20 | Mixed human-made object | Human-made | Removed | 2022-04-27 |
| CR-22 | CR22 | Metal frame, metal culvert | Human-made | Removed | 2022-04-27 |
| CR-23 | CR23 | Metal culvert | Human-made | Removed | 2022-04-27 |
| CR-24 | CR24 | Blue object, metal culverts, | Human-made | Removed | 2022-05-04 |
| CR-25 | CR25 | Blue-green pipe | Human-made | Removed | 2022-04-27 |
| CR-26 | CR26 | Metal culvert | Human-made | Removed | 2022-04-27 |
| CR-29 | CR29 | Anthropogenic debris on top of log jam | Human-made | Removed - Accessible debris has been removed, due to safety some debris remains | 2022-05-04 |
| CR-30 | CR2 | House | Human-made | Removed | 2022-04-13 |
| CR-31 | CR6 | Red pickup | Human-made | Removed | 2022-04-13 |
| CR-32 | CR13 | Motorcycle | Human-made | Removed | 2022-04-13 |
| CR-33 | CR13 | Motor home | Human-made | Removed | 2022-04-13 |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

08. Coquihalla River

| Map ID | Contractor ID* | Description | Type | Status | Removal date |
|--------|----------------|--------------------------------------|------------|-------------------------------|--------------|
| CR-34 | CR13 | Pick up truck | Human-made | Removed | 2022-04-13 |
| CR-35 | CR13 | Vehicle/trailer | Human-made | Removed | 2022-04-13 |
| CR-36 | CR13 | Recreational trailer | Human-made | Removed | 2022-04-13 |
| CR-37 | CR13 | Tent Trailer | Human-made | Removed | 2022-04-13 |
| CR-38 | CR13 | Car (blue) | Human-made | Removed | 2022-04-13 |
| CR-39 | CR13 | General debris | Human-made | Removed | 2022-04-13 |
| CR-40 | CR13 | Culverts (scattered in the vicinity) | Human-made | Removed | 2022-04-13 |
| CR-41 | CR2 | Recreational Trailer | Human-made | Removed | 2022-04-27 |
| CR-42 | | Large tires | Human-made | Removed | 2022-04-27 |
| CR-43 | CR13 | Large mix of woody debris | Natural | Removed | 2022-05-11 |
| CR-7 | CR7 | Debris around bridge pier | Natural | Removed by Others | 2022-04-27 |
| CR-11 | CR11 | Box object in between wooden debris | Human-made | Removed by Local Community | 2022-04-27 |
| CR-16 | CR16 | Metal debris, tires | Human-made | Removed by Others | 2022-04-27 |
| CR-21 | CR21 | Plastic looking debris | Human-made | Removed by Local Community | 2022-04-27 |
| CR-1 | CR1 | Bridge debris | Human-made | Concluded - Not to be Removed | N/A |
| CR-3 | CR3 | Large log under bridge | Natural | Concluded - Not to be Removed | N/A |
| CR-4 | CR4 | Woody debris on the river banks. | Natural | Concluded - Not to be Removed | N/A |
| CR-8 | CR8 | Woody debris | Natural | Concluded - Not to be Removed | N/A |
| CR-9 | CR9 | Silver car | Human-made | Concluded - Not to be Removed | N/A |
| CR-15 | CR15 | Bulldozer | Human-made | Concluded - Not to be Removed | N/A |
| CR-28 | CR9 | Abandoned car in overbank zone | Human-made | Duplicate item for CR-9 | |

* Where applicable, Contractor IDs are added, alignment is ongoing and will be updated as needed.

08. Coquihalla River - vehicles removed

| Location | Make | Model | Removal date |
|-----------------|-------------|--------------|---------------------|
| CR2 | Chevrolet | Silverado | 2022-04-05 |
| CR2 | Geo | Metro | 2022-04-05 |
| CR2 | Chevrolet | Cavalier | 2022-04-05 |
| CR2 | Unknown | Unknown | 2022-04-12 |
| CR5 | Chevrolet | Cavalier | 2022-05-04 |
| CR6 | Toyota | Tercel | 2022-04-04 |
| CR6 | Chevrolet | S10 | 2022-04-04 |
| CR13 | Pontiac | Firebird | 2022-04-08 |
| CR13 | Yamaha | Motorcycle | 2022-04-08 |
| CR13 | Unknown | Travelair | 2022-04-08 |
| CR19 | Dodge | RAM1500 | 2022-04-20 |