



28 May 2024

Reference No. 25268 en Itr StepA 0

Tim Blackburn, P.Eng. and/or Jared Wilkison, P.L.Eng

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MOTI STEP A – ENVIRONMENTAL SCREENING PROJECTS: KERSLEY-DALE LANDING ROAD, QUESNEL, BRITISH COLUMBIA

Dear Tim and Jared,

WSP Canada Inc. (WSP) was retained by the British Columbia Ministry of Transportation and Infrastructure (MOTI) to conduct a Step A – Screening Projects report as part of the MOTI Cariboo Road Recovery Project (CRRP) Multi-Disciplinary Team (MDT) for Kersley-Dale Landing Road, located near Quesnel, BC (the Project Area).

This Step A – Screening Projects environmental services is for the Project Area boundaries shown in Figure 1¹, covering an area of approximately 19.7 hectares as well as a 100 m buffer area surrounding the footprint. The Project Area is located approximately 17 km south of Quesnel. The cartographic coordinates for the centre of the Project Area are approximately 52.829955° N and 122.448774° W.

1.0 OBJECTIVES AND SCOPE OF WORK

MOTI developed Technical Circular T-03/20 policy to provide criteria and guidance to identify and characterize potentially contaminated “Type D and Stripping material (soil)” during project design phase, in order to ensure that projects are in compliance with the BC Environmental Management Act (i.e., soil handling and relocation), support property transaction, and provide information to projects to reduce construction and mitigation costs. MOTI projects involving soil cuts and relocation of soil (on or off-site) must screen project areas for BC Ministry of Environment and Climate Change Strategy (ENV) Contaminated Sites Regulation (CSR)² Schedule 2 activities or other High Risk conditions (as per BC ENV Protocol 12 [ENV, 2023]).

¹ Project Area includes the “L100 Road Toes” and a 100 m butter.

² Including the CSR Stage 14 amendments, including new requirements for Soil Relocation.

Objective of Step A – Project Screening

As outlined in Technical Circular T-03/20, the first step in the procedure for identifying and characterizing potentially contaminated soil is “Step A – Project Screening”. The objective of the Step A – Project Screening are to identify:

- The presence or absence of commercial or industrial activities listed in the CSR Schedule 2.
- The presence or absence of High Risk conditions, as recorded on the BC ENV Site Registry and as defined by ENV Protocol 12 – Site Risk Classification, Reclassification and Reporting (ENV, 2023).

If either of the above activities/conditions are identified in the Step A – Project Screening, the completion of a Site Disclosure Statement is required. The Site Disclosure Statement (Schedule 1 of the CSR) is a form that summarizes past and present commercial and industrial activities for the Project Area and properties adjacent to the Project. The Site Disclosure Statement is used by MOTI for due diligence purposes but is not submitted to ENV unless advised by the MOTI Geoscientist.

According to MOTI Technical Circular T-03/20, if soil cut locations have been identified, Step A is to be limited to these areas. For this letter report, the soil cut zones have not been fully identified; therefore, the Step A was completed for the Project Area, but does not include gravel pits, laydown areas, or other ancillary construction zones that do not require soil cuts. The Project Area boundaries are shown in Figure 1. As indicated in Figure 1, the limits of the Step A (i.e., Project Area) include a 100 m buffer zone.

Scope of Work Completed

The scope of work completed for the Step – A Project Screening included:

- Reviewing information on the BC Site Registry and Federal Contaminated Sites Inventory through iMapBC (conducted on 4 April 2024).
- Reviewing Google Earth™ and Google Street View Imagery.
- Reviewing site photographs collected by WSP staff during a site visit completed on 14 August 2023.
- Preparing this letter report summarizing the findings of the Step A – Project Screening.

2.0 RESULTS

2.1 Information Review

2.1.1 ENV Site Registry

No registered properties in the BC Site Registry were identified within the Project Area or 100 m buffer area. The nearest property registered in the BC Site Registry is located approximately 1.5 km east of the Project Area (Site ID 710). The search results are provided in Attachment 1.

2.1.2 Federal Contaminated Site Inventory

No registered properties in the Federal Contaminated Site Inventory (FCSI) database were identified within the Project Area or 100 m buffer area. The nearest registered site is located approximately 11 km north of the Project Area (ID 05080001). Search results are provided in Attachment 1.

2.1.3 Google Earth and Street View Imagery

Google Earth™ images were available for 2005, 2006, 2010, 2015, 2017, 2018, 2020, 2021, and 2022, and Google Street View images are available for 2012 and 2021. Google Street View is only available in the Project Area for approximately 350 m in the northern portion of the Project Area.

The Project Area is transected by Kersley-Dale Landing Road. No structures or buildings were observed within the Project Area. The 100 m buffer zone is generally covered in trees or vegetation.

In the northern portion of the Project Area, the land use since 2005 within the Project Area and properties to the west and east is primarily undeveloped / forested (northern portion). In the northern portion, a rural residential property is located within 100 m of the Project Area (west of the Project Area).

In the southern portion of the Project Area, the land use since 2005 within the Project Area and properties to the west and east is primarily agricultural.

Several small access paths/road lead off of Kersley Dale Landing Road.

The Fraser River is located approximately 60 m west of the southern portion of the Project Area and 350 m west of the northern portion. Highway 97 is located approximately 1.8 km east of the Project Area.

2.1.4 Aerial Photographs

Aerial photographs are available the years 1949, 1952, 1957, 1963, 1969, 1977, 1985, 1991, 1997, and 2006. The first indication of a road in the Project Area appears in 1952. The agricultural field to the east of the southern portion was cleared by 1977 and the agricultural field to the west was cleared by 1985. In general, the land at the Project Area appears similar between 1949 and 2006.

2.1.5 Site Visit

A site visit was completed on 14 August 2023 by WSP field personnel³. Photographs from this site visit were reviewed and used as supplemental to Google Earth imagery. The photographs indicate that the primary land use within the Project Area is undeveloped (forested) and agricultural in the southern portion.

Select photographs from the 14 August 2023 site visit are provided in Attachment 2.

³ The purpose of the site visit was for the WSP environmental team (biology) to identify environmentally sensitive areas present within the Project Area and not associated with Step A tasks.

2.2 Summary

The Project Area is transected by Kersley-Dale Landing Road. No structures or buildings were observed within the Project Area. The 100 m buffer zone is generally covered in trees or vegetation.

The land use on the surrounding properties west and east of the Project Area since 2005 is undeveloped / forested (northern portion) and agricultural (southern portion).

3.0 CONCLUSIONS

The objective of the Step A – Project Screening was to identify the presence or absence of commercial or industrial activities listed in the CSR Schedule 2 activities and the presence or absence of High Risk conditions (as per ENV Protocol 12).

The Step A – Project Screening did not identify any CSR Schedule 2 activities or High Risk conditions within the Project Area.

Recommendations

If areas of soil contamination (i.e., soil that exhibits staining, odours, or anthropogenic waste) are encountered during construction, the soil should be segregated for additional characterization in accordance with MOTI's Standard Specification for Highway Construction 165.14.03 and handled in accordance with SS165 Appendix 165-A. It is recommended that cut soils are characterized according to Step B of MOTI Technical Circular 03/20 if they cannot be relocated within the Right of Way or to some other MOTI property (e.g. gravel pit) and instead are relocated to a third-party receiver site.

Any suspect contaminated soil or material encountered should also be managed to ensure compliance with the BC Environmental Management Act (SBC 2003) and the CSR.

4.0 CLOSURE

We trust the information provided at this time is sufficient. If you have any questions, or require any additional information, please do not hesitate to contact the undersigned.

Yours very truly,
WSP Canada Inc.



Ben New, EIT
Environmental Engineer

Darlene Atkinson, MSc, PEng, CSAP
Senior Principal Environmental Engineer

BN/DA/keg

Attachments: Figure 1 – Step A Screening – Project Area
Attachment 1 – Records Review
Attachment 2 – Site Photographs (August 2023)

[https://wsponlinecan.sharepoint.com/sites/ca-221-11730-06/shared documents/06. deliverables/001_issued/25268 en ltr stepa 0/25268 en ltr stepa 0.docx](https://wsponlinecan.sharepoint.com/sites/ca-221-11730-06/shared%20documents/06.%20deliverables/001_issued/25268%20en%20ltr%20stepa%200/25268%20en%20ltr%20stepa%200.docx)

5.0 DOCUMENTS REVIEWED

Document / Source	Reference
GoogleEarth™ images 2006, 2006, 2010, 2012, 2015, 2017, 2018, 2020, 2021, and 2022 and Google Streetview	GoogleEarth™ online
BC ENV Site Registry	iMapBC online (Environmental Remediation layer) https://maps.gov.bc.ca/ess/hm/imap4m/
Federal Contaminated Site Inventory Map	DFRP/FCSI - Map Navigator online https://www.tbs-sct.gc.ca/fcsi-rscf/home-accueil-eng.aspx
Aerial Photographs 1949, 1952, 1957, 1964, 1969, 1977, 1985, 1991, 1997, and 2006	Province of British Columbia: 30BCC 06004, 06003, 97116, 97070, 91061, 91070, 91050, 30BC85017, 30BC77049, BC5328, BC5067, BC2345, BC2361, S82 240 – 244, BC928
2023 Environmental Baseline Survey Field Map	WSP - Caribou Road Recover Project Field Work Plan – Kersley Dale
Site photographs	Site visit photographs collected by WSP personnel. 14 August 2023

6.0 REFERENCES

Government of BC. 1996 (updated to 2023). BC Contaminated Sites Regulation. Current to 26 March 2024. Victoria BC: King's Printer. [accessed April 2024].
https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/375_96_00

Government of BC. 2003. *Environmental Management Act, 2003*. S.B.C. 2003, c. 53. Current to 26 March 2024. Victoria BC: King's Printer. [accessed April 2024].
https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/03053_00

Government of BC. 2023. Protocol 12 Site Risk Classification, Reclassification and Reporting. Version 6. 1 March 2023.

Government of BC. 2024. iMapBC online mapping database. DataBC. GeoBC. [accessed April 2024].
<https://maps.gov.bc.ca/ess/hm/imap4m/>.

Government of Canada. 2024. Federal Contaminated Sites Inventory. [accessed April 2024].
<https://map-carte.tbs-sct.gc.ca/map-carte/fcsi-rscf/map-carte.aspx>

Ministry of Transportation and Infrastructure. 2020. Technical Circular T-03/20. Identification and Characterization of Potentially Contaminated Soil. 4 August 2020.

Ministry of Transportation and Infrastructure. 2020. 2020 Standard Specification for Highway Construction. 1 November 2020.

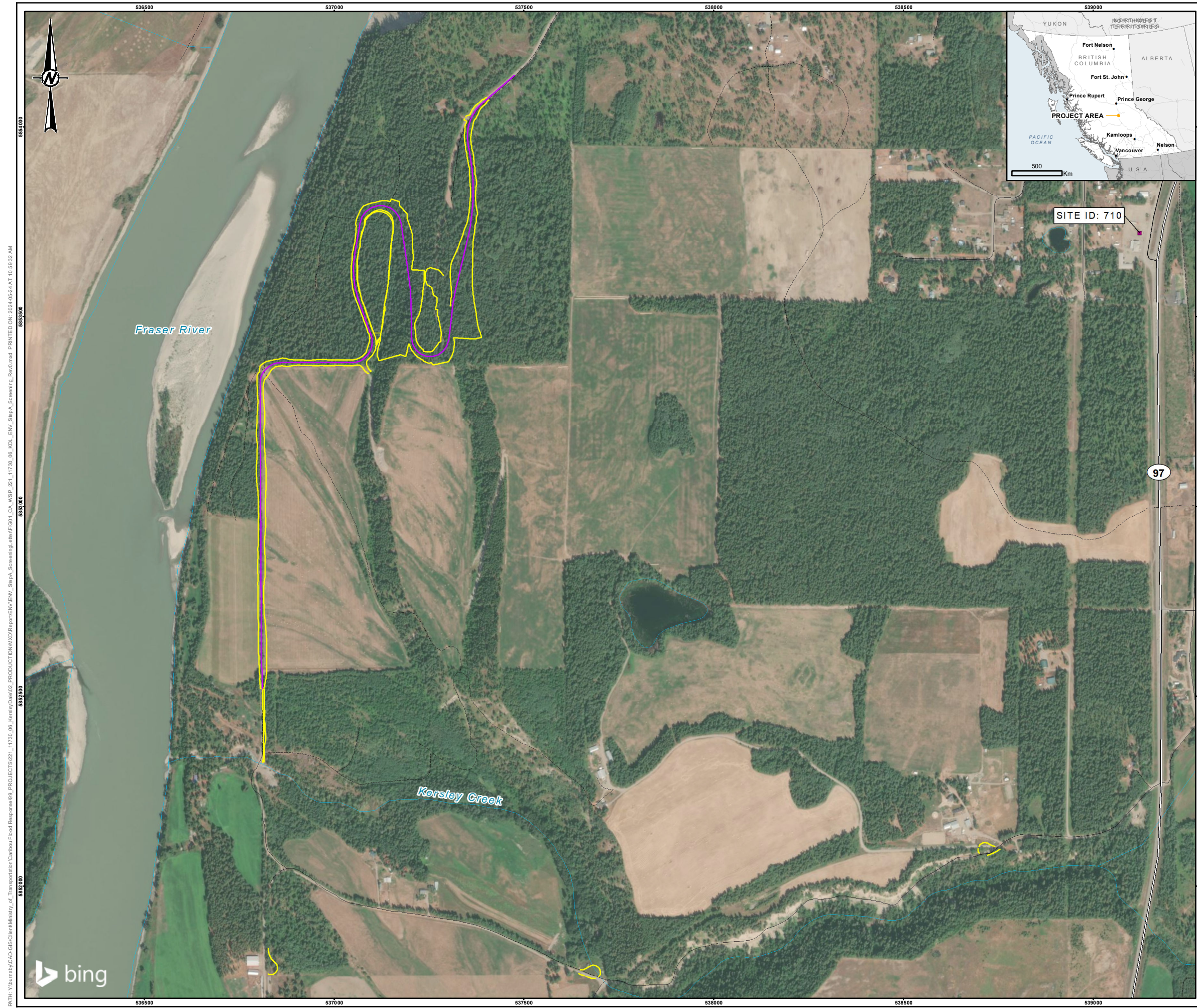
Important Information and Limitations of this Report

Standard of Care: WSP Canada Inc. (WSP) has prepared this document in a manner consistent with the level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty expressed or implied is made.

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The inferences concerning the conditions of the Site are based on information obtained from a review of available literature; a field reconnaissance visit was not completed. In developing this document, WSP has relied in good faith on information provided by MOTI and Urban Systems. We accept no responsibility for any deficiency or inaccuracy contained in this document as a result of our reliance on the aforementioned information.

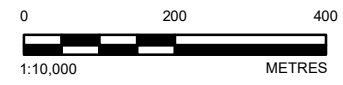
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- PROJECT COMPONENT**
- L100 ALIGNMENT
 - L100 ROAD TOES
- BASE DATA**
- BC SITE REGISTRY
 - HIGHWAY
 - ROAD - ARTERIAL / COLLECTOR
 - ROAD - LOCAL
 - ROAD - RECREATION / RESOURCE / UNCLASSIFIED
 - WATERCOURSE (1:20,000)
 - WATERBODY

SITE ID: 710

97



- REFERENCE(S)**
1. PROJECT COMPONENT DATA OBTAINED FROM URBAN SYSTEMS ON 2024-02-13 (2024-02-13 KERSLEY PROJECT TOES AND ALIGNMENT KMZ.KMZ).
 2. BASE DATA CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENSE - BRITISH COLUMBIA AND CANADA.
 3. IMAGERY OBTAINED FROM BING MAPS FOR ARCGIS PUBLISHED BY MICROSOFT CORPORATION, REDMOND, WA, 2023. COORDINATE SYSTEM: NAD 1983 UTM ZONE 10N

CLIENT
MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE

PROJECT
**CARIBOO ROAD RECOVERY PROJECT
 KERSLEY-DALE LANDING ROAD**

TITLE
STEP A PROJECT SCREENING - PROJECT AREA

CONSULTANT	YYYY-MM-DD	2024-05-24
	DESIGNED	BN
	PREPARED	LH
	REVIEWED	DA
	APPROVED	DA

PATH: Y:\our\mby\CAD-GIS\Client\Ministry_of_Transportation\Cariboo_Food_Response\99_PROJECTS\221_11730_06_Kersley\Drawings\Production\MOI\Report\ENV_ShpA_Screening_Rev0.mxd PRINTED ON: 2024-05-24 AT: 10:59:32 AM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

ATTACHMENT 1

Record Review



DFRP/FCSI - Map Navigator

Area: Cariboo Content: 0 Federal Property, 0 Federal Building, 8 Federal Contaminated Sites

Map navigation controls: Home, Location, Zoom In, Zoom Out, Hand, Info, Scale (1:123), Full Screen.

Map features: Fraser River, Quesnel View, Red Bluff, Westply, Rich Bar, Dragon, Kersley, Dragon Mountain, Interior Plateau, Fraser Plateau.

Callout: Project Area (pointing to a red arrow on the riverbank).

Scale: 1 : 108,548
Latitude: 52.92144
Longitude: -122.48565

Legend: 00026581, 05080001

Scale bar: 2 km

Treasury Board of Canada Secretariat | Maps by DBx GEOMATICS inc.

Layers | Search | Information

Control layers and labels visibility with the checkboxes. Control the base map with the select list. Actions will automatically update the map.

	Federal Properties	<input type="checkbox"/> Visibility ¹	<input type="checkbox"/> Labels
	Federal Buildings	<input type="checkbox"/> Visibility ¹	<input type="checkbox"/> Labels
	Federal Contaminated Sites	<input checked="" type="checkbox"/> Visibility ^{1 2}	<input checked="" type="checkbox"/> Labels
	Economic Region	<input type="checkbox"/> Visibility	<input type="checkbox"/> Labels
	Census Divisions	<input type="checkbox"/> Visibility	<input type="checkbox"/> Labels
	Census Subdivisions	<input type="checkbox"/> Visibility	<input type="checkbox"/> Labels
	Metropolitan Areas	<input type="checkbox"/> Visibility	<input type="checkbox"/> Labels
	Federal Electoral Districts	<input type="checkbox"/> Visibility	<input type="checkbox"/> Labels
	Treaty Areas	<input type="checkbox"/> Visibility	<input type="checkbox"/> Labels

Base map: Standard ³

¹ This layer is visible only when the map scale is smaller than 1:3,000,000.
² Suspected Active Closed
³ Google base maps are only available when the map scale is smaller than 1:60,000.

**Legend**

- Environmental Remediation

0 0.76 1.51 km

1: 37,187

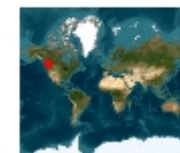
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Datum: NAD83

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Key Map of British Columbia

ATTACHMENT 2

Site Photographs, 14 August 2023



Photo 1: Field east of southern portion of Project Area.



Photo 2: Field west of southern portion of Project Area.

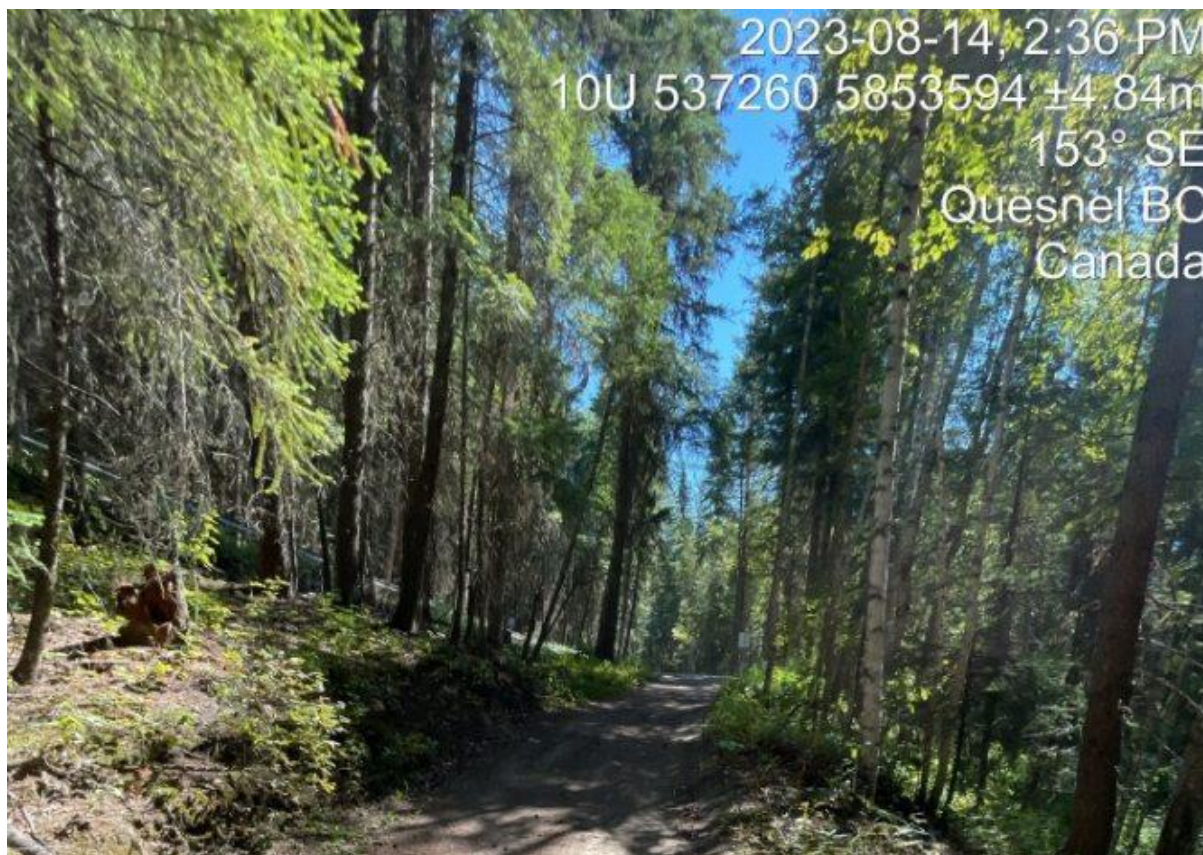


Photo 3: Forested area in northern portion of Project Area, looking south.



Photo 4: Forested area in northern portion of Project Area.