BRITISH COLUMBIA ARCHAEOLOGICAL IMPACT ASSESSMENT INTERIM REPORT FORM

1. REPORT TITLE

HCA HIP 2021-0151	Archaeological Impact Assessment of McGill Corridor Phase 1

2. MANAGEMENT SUMMARY

2.1	*Protected HCA Sites:*	None
2.2	*Brief Overview of Study:*	
	Tk̓emlúps te Secwépemc (TteS) Natural Resource Department conducted an Archaeological Impact Assessment (AIA) of the McGill Corridor, at Thompson Rivers University in Kamloops, BC (Figure 1). Thompson Rivers (the proponent) plans to develop the location to a mixed commercial-residential complex of two multi-story buildings including one below grade floor. The assessment was conducted in July of 2021 under the direction of a TteS Field Director adhering to the outlined conditions detailed under Heritage Inspection Permit (HIP) 2021-0151. One test area displaying high archaeological potential was subject to subsurface testing; no artifacts or archaeological features were encountered during the investigation.	
2.3	*Results:*	
	A total of 43 tests were laid in 10 m grid spacing within areas containing high archaeological potential, with 35 of the 43 tests excavated either by machine auger or by shovel. The remaining 8 tests were not excavated due utility constraints. The excavated 35 tests yielded negative results for archaeological materials.	
2.4	*Management Recommendations:*	
	No further work is recommended for the assessed area. Should the boundary of the development change, additional assessment is recommended.	

3. ADMINISTRATIVE INFORMATION

3.1	*Permit Holder:*	Heleana Moore, B.A.	*3.2*	*Permit Holder Affiliation:*	Tk'emlúps te Secwepemc
3.3	*Proponent Contact:*	Matt Milovick *T: (250) 819-6316* *E: mmilovick@tru.ca*	*3.4*	*Proponent Affiliation:*	Thompson Rivers University, 805 TRU Way, Kamloops, BC V2C 0C8
3.5	*Interim Report Author(s):*	Heleana Moore, B.A. (TteS NRD)			
3.6	*Interim Report Date & Version:*	December 10th, 2021			
3.7	*Notification of Work Date:*	N/A			

4. PROPOSED DEVELOPMENT

4.1	*Description:*	Residential Development
4.2	*Location:*	Thompson River University, Kamloops, BC
4.3	*NTS Mapsheet*	92I.069

5. FIELD CREW

Table 1. Field Crew

Date (dd/mm/yy)	*Field Director (on site? Y/N)*	*Field Supervisor*	*Other Field Personnel*
12/07/21 to 14/04/21	Ryan Dickie (Y)	Carissa Nakesch (TteS)	Cade Hawkins-Bara, Daren Thomas, Heleana Moore (TteS)

6. ARCHAEOLOGICAL METHODS & RESULTS

6.1. Pre-field Methodology

☒ Archaeological potential and sites are indicated on the Study Area Map

☐ An AOA and /or archaeological predictive model exists for the study area

Details:

☒ Previous field studies influenced this assessment

Details: AIA of BC Hydro SI-KAM-001 WKA Substation Duct Bank Egress DY0959, Kamloops, Kamloops, Permit #2018-0025 (Ursus 2018)

☒ Review of Provincial Heritage Register

Date Accessed: February 8, 2021

☒ Other

Details: Review of aerial photography indicates that a historic landfill was once located immediately west of the project location but does not appear to have overlapped.

Table 2. Archaeological Sites in the Vicinity of the Study Area

Borden No.	Distance & Direction from the Proposed Development	Site Type	Permit No. of Previous Visits	Site in Conflict (Y/N)
EeRc-43	1.8 km north	Cemetery	N/A	N
EeRc-58	2.3 km north	Burial	1997-0004	N
EeRc-134	1.9 km north	Artifact scatter	2018-0025	N
EeRc-135	2.0 km north	Artifact scatter	2018-0025	N

6.2. In-field Methodology

☒ Auger test measurements are a minimum of 41 x 41 cm or shovel tests measured 35 X 35 cm.

Date Assessed: July 12th to 14th, 2021

Describe if other: A 41 cm auger bit was used to drill subsurface tests spaced at a 10 m grid; test sediments were then screened through 6mm mesh. All materials were returned into the drilled holes after screening occurred. Six of the 35 tests were hand dug (ST 1, 2, 3, 6, 9, and 11, Appendix A), as the locations were unsafe or inaccessible to machine test. Shovel tests measured 35 X 35 cm and were also screened through 6 mm mesh and backfilled upon completion.

6.2.1	*Number of Crew Members:*	4-5	*6.2.2*	*Crew Spacing:*	N/A
6.2.3	*Other:*	N/A			

6.3. In-field Observations

A desktop-based review identified the project location (Figure 1) as displaying high to moderate archaeological potential, due to the close proximity of other sites (4 sites within 2 km), close proximity to a major hydrological feature (108 meters southwest of Guerin Creek and 1.4 km south of the Thompson River), and lack of development historically. Arial photography (City of Kamloops Map Series Through the Years, 1928-2020) shows the historic Guerin Creek landfill within close proximity to the project location. The aerial photography also suggests that the trees within the project location have been there since as long as 1948. Formerly, McGill Road was situated just north of the project area; historic arial photography indicates that McGill Road relocated south of the project location between 1974-1982.

Fieldwork commenced on July 12, 2021, starting with a pedestrian field survey to identify areas of archaeological potential. Terrain within the selected test area consists of a low-lying, treed section with elevated benches to the south and north. It is unclear if the low-lying treed area represents a natural gulley, with the higher edges essentially the banks of this gulley, or if the area to the north and south has been built up for construction purposes. The area has been impacted by various utilities (BC Hydro, Telus, and Fortis) crossing the southern and eastern extent of the test area. A BC One Call (conducted June 2, 2021) and ensuing locates were obtained so that the crew could avoid any impacts to highly dangerous lines. Additional disturbance included two trails winding through the area, used by the public and those who access the TRU campus.

Vegetation varies from invasive to mature native species; understory includes saskatoon, crested wheat grass, snowberry, sage, and rabbit brush. Overstory includes Ponderosa pine, both mature and juvenile, as well as juvenile Lodgepole pine. Invasive species noted included cinquefoil, Russian Olive, western Mountain Ash, and Chinese Elm.

Tests were flagged at 10 m intervals, with added tests at 5 m intervals for added coverage as per Field Director discretion. Sediments consisted mainly of light brown silty sands with varying inclusions (from less than 1 to 7%) ranging in size from pebbles to small cobbles, and subrounded to subangular in shape. Stratigraphy is detailed per each test in Appendix A.

6.4. Results & Recommendations

Table 3. Assessment Results

Subsurface Testing	Description	Location (UTM)	Dimensions (L x W)	Subsurface tests		
				Total	Pos	Neg
Auger Test (AT) Area	The landscape has been extensively altered by surrounding development; remnants of a potential northeast to southwest oriented gulley with benches to the south and north is still discernable. Testing was concentrated on these respective areas.	10 U 686571 5616101 (AT 25)	60 m E-W X 75 m N-S	35	0	35

A total of 35 tests were excavated within the proposed development, of which none were positive for cultural materials. Forty-three (43) tests were laid out, however eight were not excavated due to close proximity to utilities. These test locations were recorded (Figure 2) but noted as being unexcavated. One piece of potential fish bone was collected from AT 11, however there is no evidence to suggest this bone is archaeological, as it was unmodified and not associated with any other archaeological features or materials.

No protected archaeological sites or resources were identified within the areas of the proposed development that were accessible to archaeological investigation. The remainder of the project area is considered to have low potential for archaeological sites, and therefore no further work is required. The lack of archaeological materials identified during the field assessments is not an indication of the absence of Secwépemc people on the landscape. Therefore, in the event that cultural materials are discovered over the course of the future proposed construction activities, all work should stop in the vicinity of the find and the Archaeology Branch and Tk'emlúps te Secwépemc Natural Resource Department be notified immediately.

7. DISCLOSURE STATEMENT & SIGNATURE

Even the most thorough investigation may fail to reveal the presence of all archaeological materials, including those protected by the Heritage Conservation Act. If unanticipated cultural materials or features, including but not limited to rock art, faunal remains, stone artifacts, and/or ancestral remains, are encountered within the park, all ground-altering work in the immediate vicinity of the

discovery should cease, and the Archaeology Branch must be contacted as soon as possible so that an archaeological management plan can be developed and implemented.

This study is concerned with the identification and documentation of archaeological sites protected under Section 12 of the Heritage Conservation Act. This study was conducted without prejudice to Aboriginal Title and Rights and therefore is not considered consultation for the purpose of defining or limiting the Aboriginal Rights and Title of the Tk'emlúps te Secwépemc or any First Nation.

Tk'emlúps te Secwepemc

Heleana Moore BA
Archaeological Field Director

Leslie LeBourdais BA, BGIS
A\Manager Natural Resources Department

8. REFERENCES CITED

Kamloops Through the Years 1928-2020 Map Series. *Kamloops.maps.arcgis.com*, kamloops.maps.arcgis.com/apps/MapSeries/index.html?appid=1b003d8208e844188a3939e895b86489.

AIA of BC Hydro SI-KAM-001 WKA Substation Duct Bank Egress DY0959, Kamloops, Kamloops, Permit #2018-0025 (Ursus 2018)

9. SHAPE FILES

☒ Study area shape files have been sent to archsiteform@gov.bc.ca

10. APPENDICES

Required:

☒ General Area Map
☒ Study Area Map
☒ Photo Plate(s)

If Applicable:

☒ Detailed Development Map
☒ Subsurface Test Log
☒ Site Forms, Site Maps and Related Documents
☐ Other Details:

Photo 1. View east of project area; pink flags mark shovel/auger tests.

Photo 2. View north during auger testing, note mature Ponderosa Pine in centre of frame, with invasive Chinese elm to the left of frame.

Photo 3. View west within low-lying terrain in project area.

Photo 4. Hand excavated shovel test 11; test was negative for archaeological features and materials.

Photo 5. Auger test 7 prior to backfill; test was also negative for archaeological features and materials.

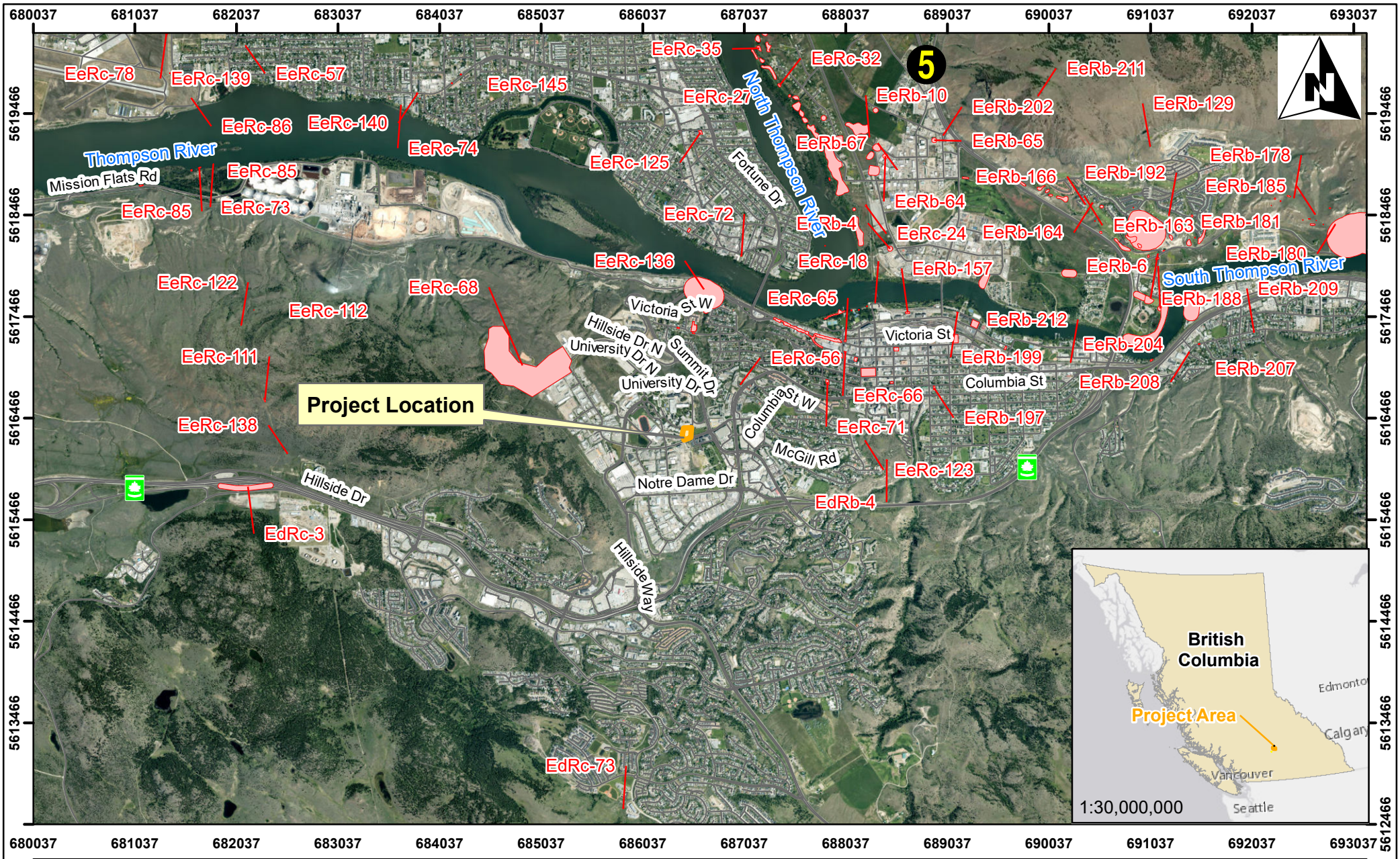

Figure 1. Project Overview Map
Project: Archaeological Impact Assessment of McGill Phase 1

Client: Thompson Rivers University Community Trust
General Location: Kamloops, BC
Mapsheet #: 92I.069
HCA Permit #: 2021-0151

Legend

- Project Location
- Previously Recorded Archaeological Site Boundary
- Road

Data Source: TteS NRD,MFLNRO,GeoBC, TRU Trust
BC Archaeolog Branch, ESRI Basemap
Coordinate System: NAD 83
UTM Zone 10N

0 0.75 1.5 Kilometers

1:50,000

Date: 2021-12-06

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Figure 2. Subsurface Test Area
Project: Archaeological Impact Assessment of McGill Phase 1

Client: Thompson Rivers University Community Trust
General Location: Kamloops, BC
Mapsheet #: 92I.069
HCA Permit #: 2021-0151

Legend

- Photo Location and Orientation
- Negative Auger Test (40cm Diameter)
- Negative Shovel Test (35cmx35xm)
- Shovel Test Not Dug
- Auger Test Not Dug
- Project Location

Data Source: TteS NRD,MFLNRO,GeoBC, TRU Trust
BC Archaeolog Branch, ESRI Basemap
Coordinate System: NAD 83
UTM Zone 10N

0 20 40 Meters

1:1,000

Date: 2021-12-09

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Appendix A

Test Log – McGill Corridor Phase 1

Test #	Results	Depth below surface (cm) - top	Depth below surface (cm) - bottom	Soil/Sediment description	Inclusions
1	Negative	0	1.5m	Grey sand	0.5% pebble
2	Negative	0	1.5m	Grey sand	0.5% pebble
3	Negative	0	1.2m	Grey sand	0.5% pebble
4	Negative	0	1.3m	Light brown silt/sand	5% sub round and sub angular
5	Negative	0	1.2m	Light brown silt/sand	5% sub round and sub angular
6	Negative	0	1.2m	Light brown silt	7% sub round and sub angular
7	Negative	0	1.5m	Light brown silt	7% sub round and sub angular
8	Negative	0	1.2m	Imported sand	2% pebbles
9	No Test (utility line)				
10	No test (utility line)				
11	Negative	0	1.7m	Brown silt	2% sub round and sub angular
12	Negative	0	1.2m	Brown silt	3% sub round and sub angular
13	Negative	0	1.2m	Light brown silt/sand	3% sub round and sub angular

14	Negative	0	1.5m	Light brown silt/sand	3% sub round and sub angular
15	Negative	0	1.5m	Light brown silt	2% sub round and sub angular with 0.2% plastic shards
16	Negative	0	1.3m	Light brown silt	2% sub round and sub angular with plastic shards
17	Negative	0	1.5m	Light brown silt	2% sub round and sub angular with plastic shards
18	Negative	0	1.5m	Light brown sand	0.5% pebbles
19	Negative	0	1.2m	Light brown sand	0.5% pebbles
20	Negative	0	1.2m	Brown silt/sand	0.5% pebbles
21	No test				
22	No test				
23	Negative	0	1.8m	Brown silty sand	5% round and angular
24	Negative	0	1.2m	Light brown sand	0.5% pebbles
25	No test (utility line)				
26	Negative	0	1.4m	Imported fill	N/A
27	Negative	0	1.5m	Brown silt	3% sub round and sub angular

28	Negative	0	1.9m	Brown silt	3% sub round and sub angular
29	Negative	0	1.4m	Light brown sand	2% sub round and sub angular
30	Negative	0	1.6m	Brown silt	5% sub round and sub angular
31	Negative	0	1.4m	Brown silt/sand	5% sub round and sub angular
32	Negative	0	1.6m	Brown silt	3% sub round and sub angular
33	No test (utility line)				
34	Negative	0	1.7m	Brown silt	3% sub round and sub angular
35	Negative	0	1.3m	Brown silt	3% sib round and sub angular
36	Negative	0	1.2m	Light brown sand	1.0% pebbles
37	Negative	0	1.2m	Light brown sand	1.0% pebbles
38	Negative	0	1.2m	Light brown sand	1.0% pebbles
39	Negative	0	1.6m	Brown silt	3% sub round and sub angular
40	Negative	0	1.1m	Brown silt	3% sub round and sub angular
41	Negative	0	1.1m	Light brown sand	2% pebbles

42	No test (utility line)				
43	No test (stake)				