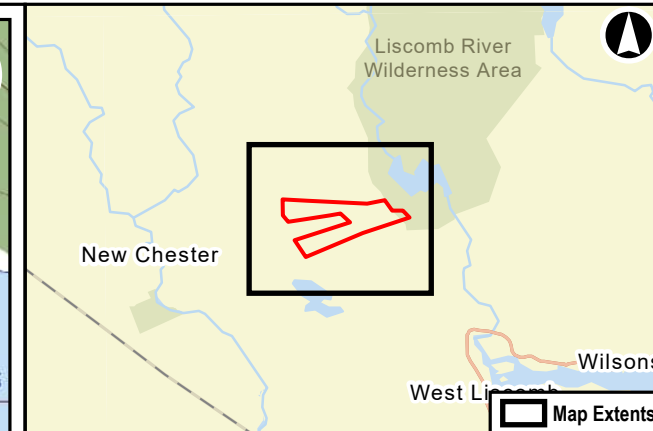
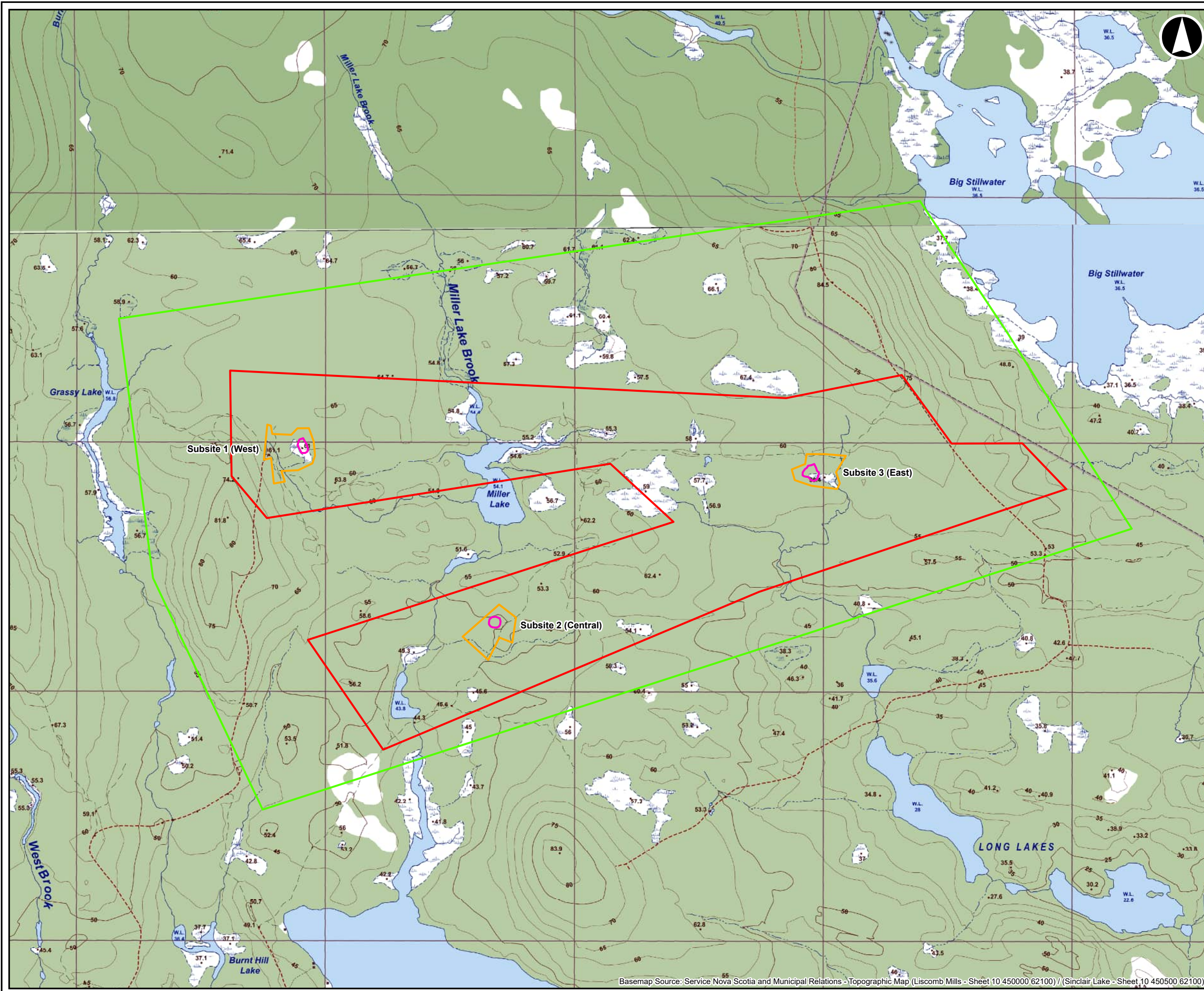


Appendix **A**

Figures



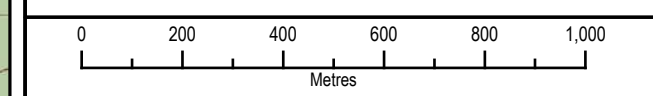


- Legend**
- Phase I ESA Study Area (Approximate)
 - ERIS Study Area
 - Subsite Inspection Limits
 - Tailings Area Boundaries

NOTE:
Tailings Area Boundaries were provided to AECOM by others

**BNS MILLER LAKE
PHASE I ESA REPORT**

SITE PLAN – PROPERTY BOUNDARY

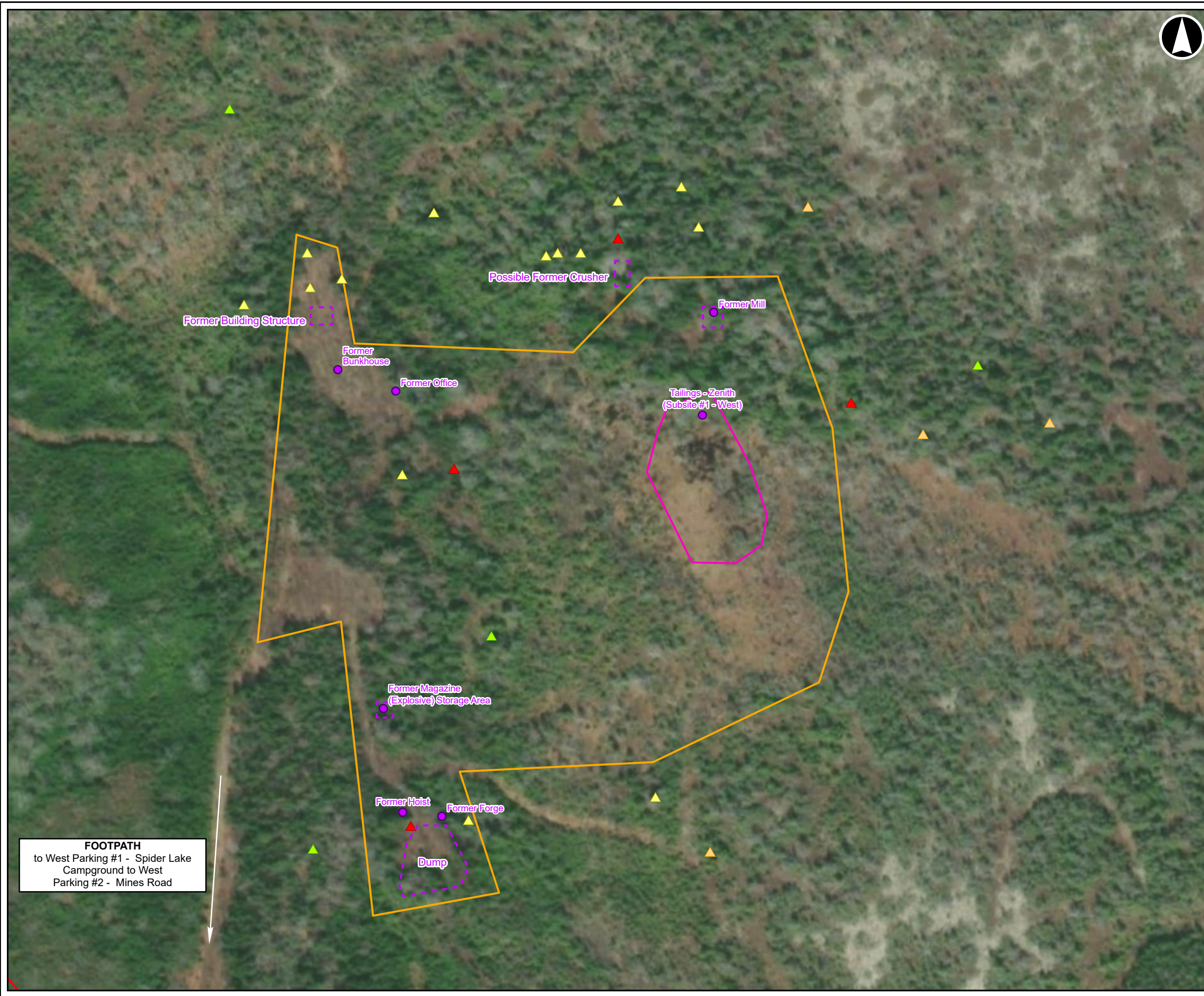


Datum: NAD 1983 UTM Zone 20N

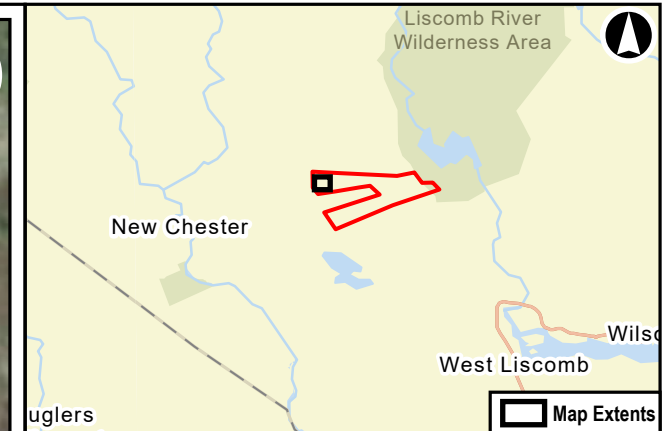
Nov, 2023	PN#: 60711967	1:15,000 <small>*when printed 11"x17"</small>	AECOM
Figure 2			

Data Sources: Nova Scotia Government - Open Data Portal, NRCan, Esri, NASA, NGA, USGS, Province of Nova Scotia, Esri Canada, Esri, HERE, Garmin, SafeGraph, METINASA, USGS, NRCan, Parks Canada, Esri Community Maps Contributors, Province of Nova Scotia, Esri Canada, Esri, HERE, Garmin, SafeGraph, METINASA, USGS, NRCan, Parks Canada, Sources: NRCan, Esri Canada, and Canadian Community Maps contributors. This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties, except as agreed by AECOM and its client, as required by law or for use by governmental reviewing agencies. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without AECOM's express written consent.

Basemap Source: Service Nova Scotia and Municipal Relations - Topographic Map (Liscomb Mills - Sheet 10 450000 62100) / (Sinclair Lake - Sheet 10 450500 62100)



FOOTPATH
to West Parking #1 - Spider Lake
Campground to West
Parking #2 - Mines Road

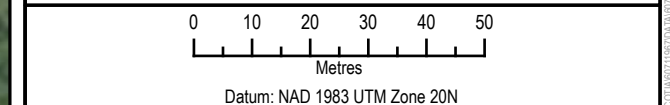


- Legend**
- Phase I ESA Study Area (Approximate)
 - Subsite Inspection Limits
 - Tailings Area Boundaries
 - Area of Potential Environmental Concern
 - Site Feature
- Abandoned Mine Openings (AMO) - Hazard Level**
- ▲ High
 - ▲ Medium
 - ▲ Low
 - ▲ Unknown

- NOTES:**
1. Contents of the Figures is based on Pre-Inspection Information of AMOs, POIs, and Tailings Deposit Limits
 2. Tailings Area Boundaries were provided to AECOM by others
 3. The location of the Possible Former Crusher was provided by Build Nova Scotia based on the 1928 Map
 4. Multiple bunkhouses were present on Site in the "bunkhouse area"

**BNS MILLER LAKE
PHASE I ESA REPORT**

AREAS OF POTENTIAL CONCERN – SUBSITE 1

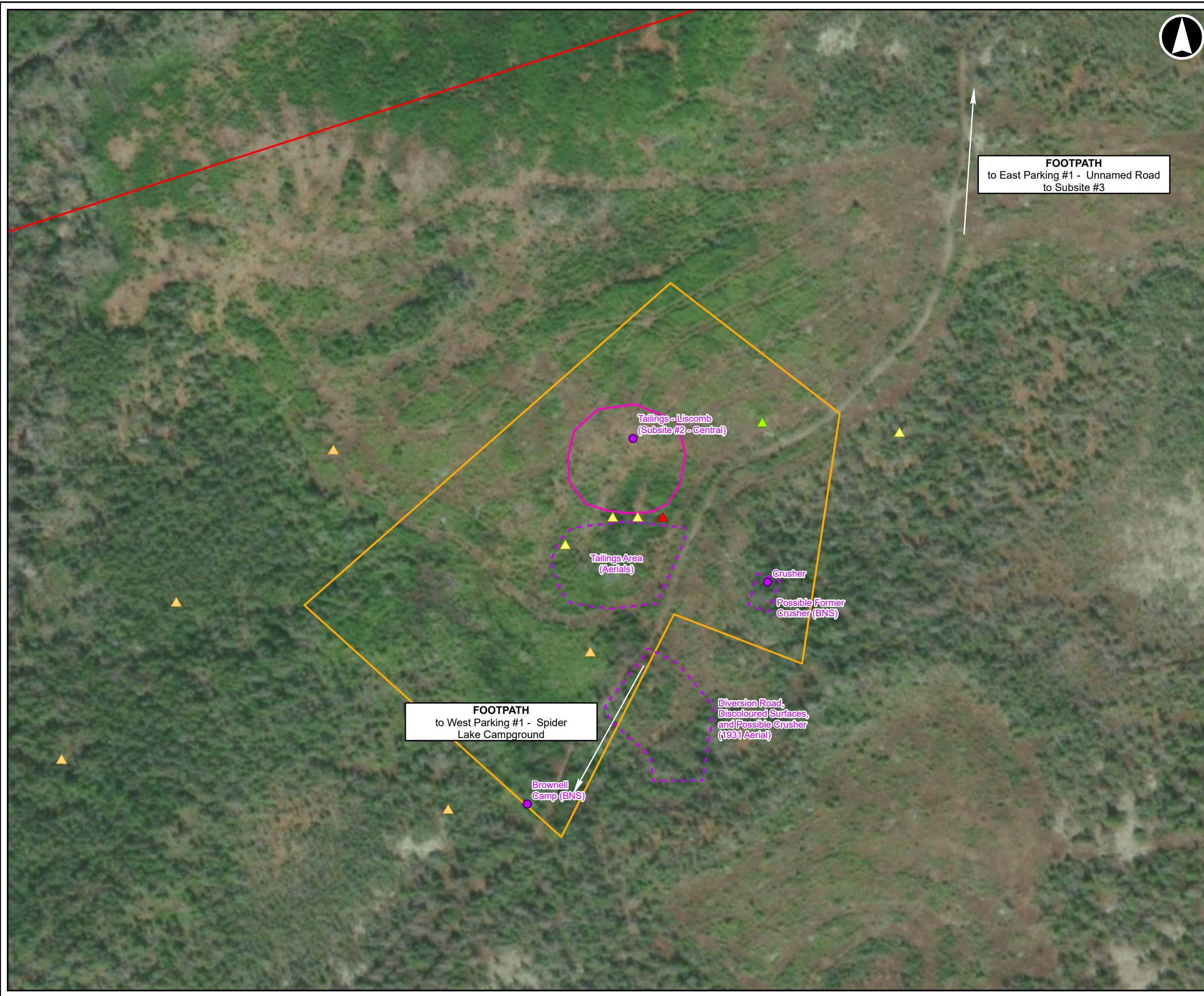


Nov, 2023	PN#: 60711967	1:1,300 <small>*when printed 11"x17"</small>	AECOM
Figure 3			

Data Sources: Nova Scotia Government - Open Data Portal
Province of Nova Scotia, Esri Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, NRCAN, Parks Canada, Maxar

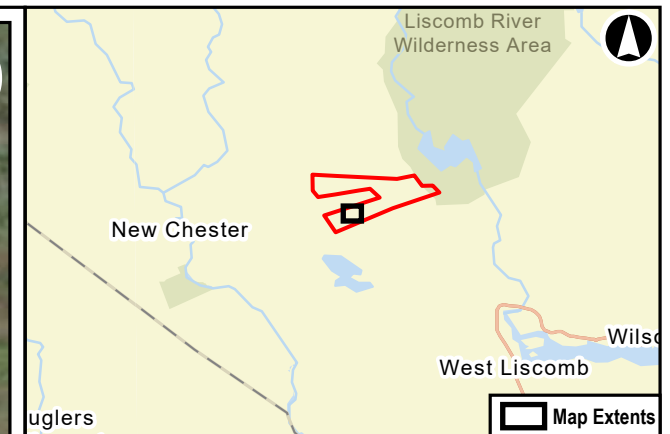
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DATE SAVED: 11/08/2023 USER: NAME: RANCE CROSSMAN PROJECT: 60711967_11/08/2023



FOOTPATH
to East Parking #1 - Unnamed Road
to Subsite #3

FOOTPATH
to West Parking #1 - Spider
Lake Campground



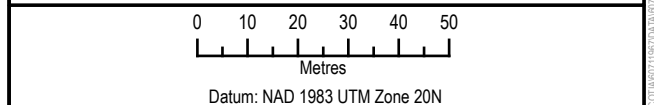
- Legend**
- Phase I ESA Study Area (Approximate)
 - Subsite Inspection Limits
 - Tailings Area Boundaries
 - Area of Potential Environmental Concern
 - Site Feature
- Abandoned Mine Openings (AMO) - Hazard Level**
- ▲ High
 - ▲ Medium
 - ▲ Low
 - ▲ Unknown

NOTES:

1. Contents of the Figures is based on Pre-Inspection Information of AMOs, POIs, and Tailings Deposit Limits
2. Tailings Area Boundaries were provided to AECOM by others
3. The location of the Possible Old Crusher was provided by Build Nova Scotia based on the 1928 Map
4. A review of Aerial Photography indicated that the Sub-site 2 activity area and tailings area was more south than previously anticipated and the polygons were extended

**BNS MILLER LAKE
PHASE I ESA REPORT**

AREAS OF POTENTIAL CONCERN – SUBSITE 2

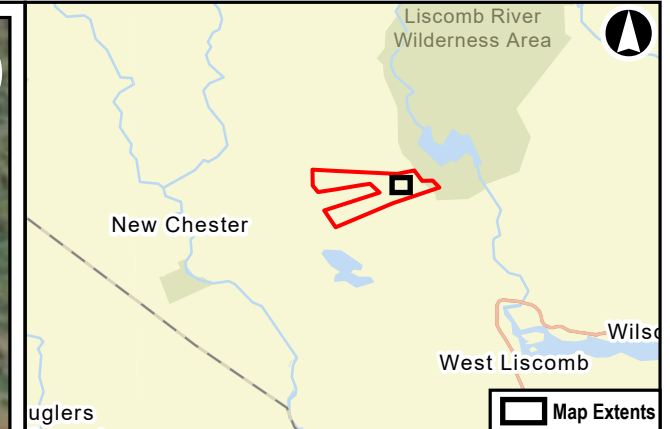
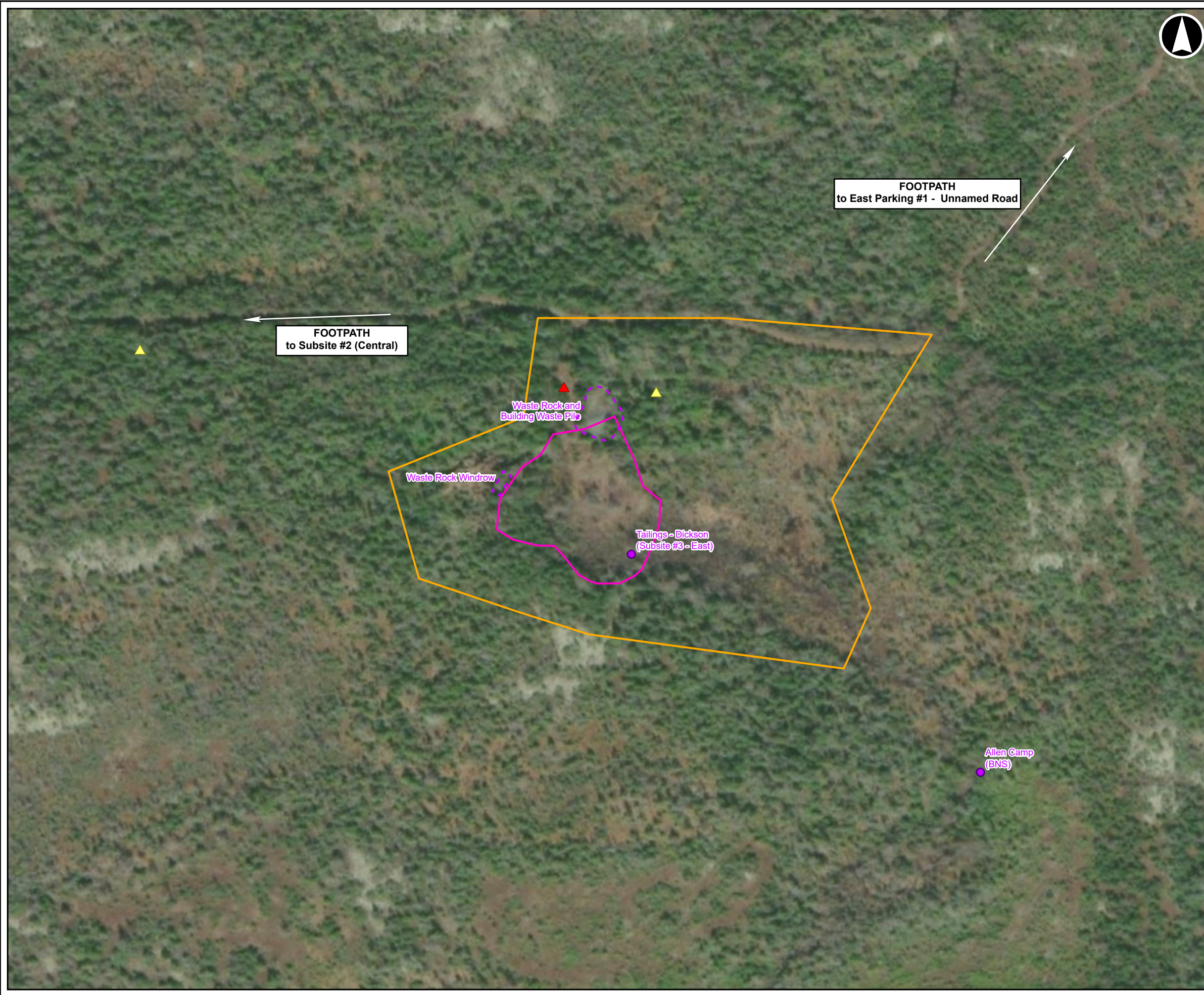


Nov, 2023	PN#: 60711967	1:1,500 <small>*when printed 11"x17"</small>	AECOM
Figure 4			

Data Sources: Nova Scotia Government - Open Data Portal
Province of Nova Scotia, Esri Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, NRCAN, Parks Canada, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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DATE SAVED: 11/08/2023 USER: NAME: RANCE CROSSMAN PROJECT: BNS MILLER LAKE PHASE I ESA REPORT



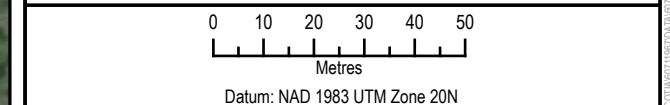
- Legend**
- Phase I ESA Study Area (Approximate)
 - Subsite Inspection Limits
 - Tailings Area Boundaries
 - Area of Potential Environmental Concern
 - Site Feature
- Abandoned Mine Openings (AMO) - Hazard Level**
- ▲ High
 - ▲ Medium
 - ▲ Low
 - ▲ Unknown

NOTES:

1. Contents of the Figures is based on Pre-Inspection Information of AMOs, POIs, and Tailings Deposit Limits
2. Tailings Area Boundaries were provided to AECOM by others
3. The Waste Rock Windrow was inaccessible during the site visit and its dimensions could not be confirmed. As it was not accessed, its location and size on the figure is approximate

**BNS MILLER LAKE
PHASE I ESA REPORT**

AREAS OF POTENTIAL CONCERN – SUBSITE 3



Nov, 2023	PN#: 60711967	1:1,500 <small>*when printed 11"x17"</small>	AECOM
Figure 5			

Data Sources: Nova Scotia Government - Open Data Portal
Province of Nova Scotia, Esri Canada, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, NRCAN, Parks Canada, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties, except as agreed by AECOM and its client, as required by law or for use by governmental reviewing agencies. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without AECOM's express written consent.

DATE SAVED: 11/08/2023 USER: NAME: RANCE CROSSMAN PROJECT: 60711967_11/08/2023

Appendix **B**

Site Visit Photo Log



Subsite 01



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No.	Date
1-01	7/18/2023
Subsite	
01 (West)	
Description	
Discarded metal pipes.	



Photo No.	Date
1-02	9/7/2023
Subsite	
01 (West)	
Description	
Downstream water course.	
Sediment sampling location at Subsite 01.	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 1-03	Date 7/18/2023
Subsite 01 (West)	
Description Site 01 tailings deposit. Sampled.	



Photo No. 1-04	Date 7/18/2023
Subsite 01 (West)	
Description Ponded water at Subsite 01	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 1-05	Date 9/7/2023
Subsite 01 (West)	
Description Can found near the office location at Subsite 01	



Photo No. 1-06	Date 9/7/2023
Subsite 01 (West)	
Description Discarded fabric materials near the office location at Subsite 01	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 1-07	Date 9/7/2023
Subsite 01 (West)	
Description Hoist cable at the Hoist location at Subsite 01	



Photo No. 1-08	Date 9/7/2023
Subsite 01 (West)	
Description Tire	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 1-09	Date 9/7/2023
Subsite 01 (West)	
Description Standing water with white/blueish tint (sheen) at surface found downstream and in wetland where tailings were deposited.	



Photo No. 1-10	Date 9/7/2023
Subsite 01 (West)	
Description Soil profile at the tailing sample at Subsite 01	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 1-11	Date 9/7/2023
Subsite 01 (West)	
Description Scrap metal found at the Mill location	



Photo No. 1-12	Date 9/7/2023
Subsite 01 (West)	
Description Scrap metal found at the Mill location	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 1-13	Date 9/7/2023
Subsite 01 (West)	
Description Debris Area: S01-DA-003.2 (Mill)	
Remains of a structure found at the Mill location	



Photo No. 1-14	Date 9/7/2023
Subsite 01 (West)	
Description Debris area: S01-DA-003.2 (Mill) (cont...)	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 1-15	Date 9/7/2023
Subsite 01 (West)	
Description A warning sign for a mine opening at Subsite 01. Mine opening can be seen in the foreground.	



Photo No. 1-16	Date 9/7/2023
Subsite 01 (West)	
Description A warning sign for a mine opening at Subsite 01. Downed trees blocked the view for the mine opening.	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 1-17	Date 9/7/2023
Subsite 01 (West)	
Description Debris area: (S01-DA-002 (Office)) Near former Office	



Photo No. 1-18	Date 9/7/2023
Subsite 01 (West)	
Description Debris area: (S01-DA-002 (Office)) Cont...	



Subsite 02



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 2-01	Date 9/7/2023
Subsite 02	
Description Tailing deposit at Subsite 02. Soil profile had a shallow depth.	



Photo No. 2-02	Date 9/7/2023
Subsite 02	
Description Tubes found near Subsite 02 at the camp location.	



Client Name: Build Nova Scotia	Report Name Miller Lake Mine Sites	Project No. 60711967
--	--	--------------------------------

Photo No. 2-03	Date 7/18/2023
Subsite 02	
Description Subsite 02, at crusher location. No materials or sign of crusher could be visually identified.	



Photo No. 2-04	Date 7/18/2023
Subsite 02	
Description Subsite 02, at crusher location. No materials or sign of crusher could be visually identified.	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 2-05	Date 9/7/2023
Subsite 02	
Description Subsite 02, at crusher location. No materials or sign of a crusher could be visually identified	



Subsite 03



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 3-01	Date 9/7/2023
Subsite 03	
Description Tailings deposit Soil profile at the tailing sampling location at Subsite 03.	



Photo No. 3-02	Date 9/7/2023
Subsite 03	
Description Tailings deposit Tailing sample at Subsite 03.	



Client Name: Build Nova Scotia	Report Name: Miller Lake Mine Sites	Project No.: 60711967
--	---	---------------------------------

Photo No.: 3-03	Date: 9/7/2023	
Subsite: 03		
Description: Tailing sample at Subsite 03		

Photo No.: 3-04	Date: 7/18/2023	
Subsite: 03		
Description: Tailing sample, soil depth profile at Subsite 03.		

Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No. 3-05	Date 9/7/2023
Subsite 03	
Description Sheen observed on standing water inside and downstream of wetland where tailings are deposited.	



Photo No. 3-06	Date 9/7/2023
Subsite 03	
Description Waste rock pile found at Subsite 03	



Client Name:
Build Nova Scotia

Report Name
Miller Lake Mine Sites

Project No.
60711967

Photo No.	Date
3-07	9/7/2023
Subsite	
03	
Description	
Waste rock pile found at Subsite 03	
Some fabric material and lumber can be seen in the waste rock piles.	



Photo No.	Date
3-08	9/7/2023
Subsite	
03	
Description	
Debris area: S03-DA-001	
Debris and remaining infrastructure. Leftover metal supports, metal and wood debris. Immediately south of waste rock pile and on top of waste rock	



Appendix **C**

Aerial Photographs





Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 1: 1931 - A4145_036 (NAPL)



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 2: 1947 - A11775_117 (NAPL)



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 3: 1948 - A11814_041 (NAPL)



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

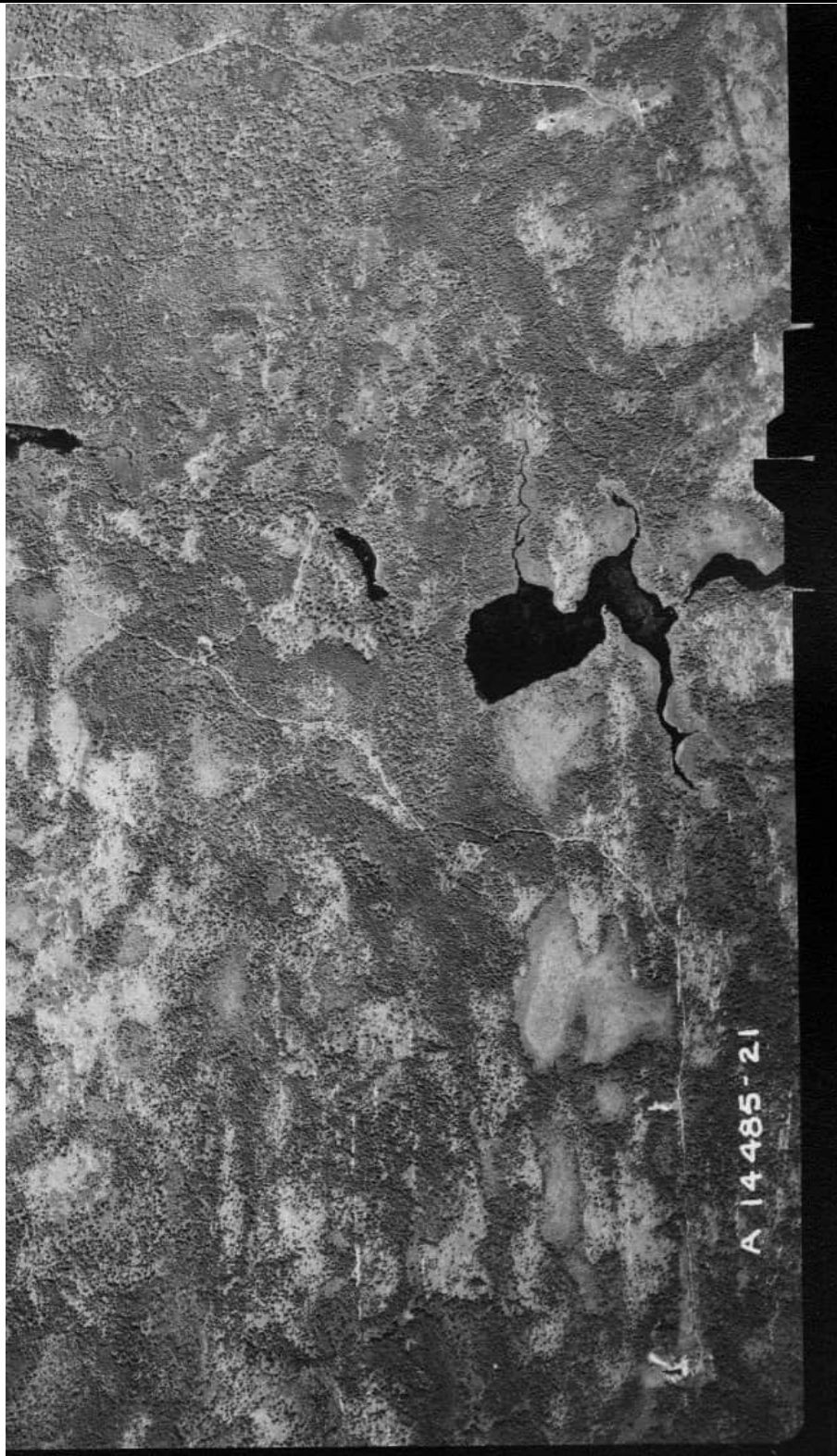


Photo 4: 1954 - A14485_021 (NAPL)



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 5: 1954 - A14485_140 (NAPL)



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

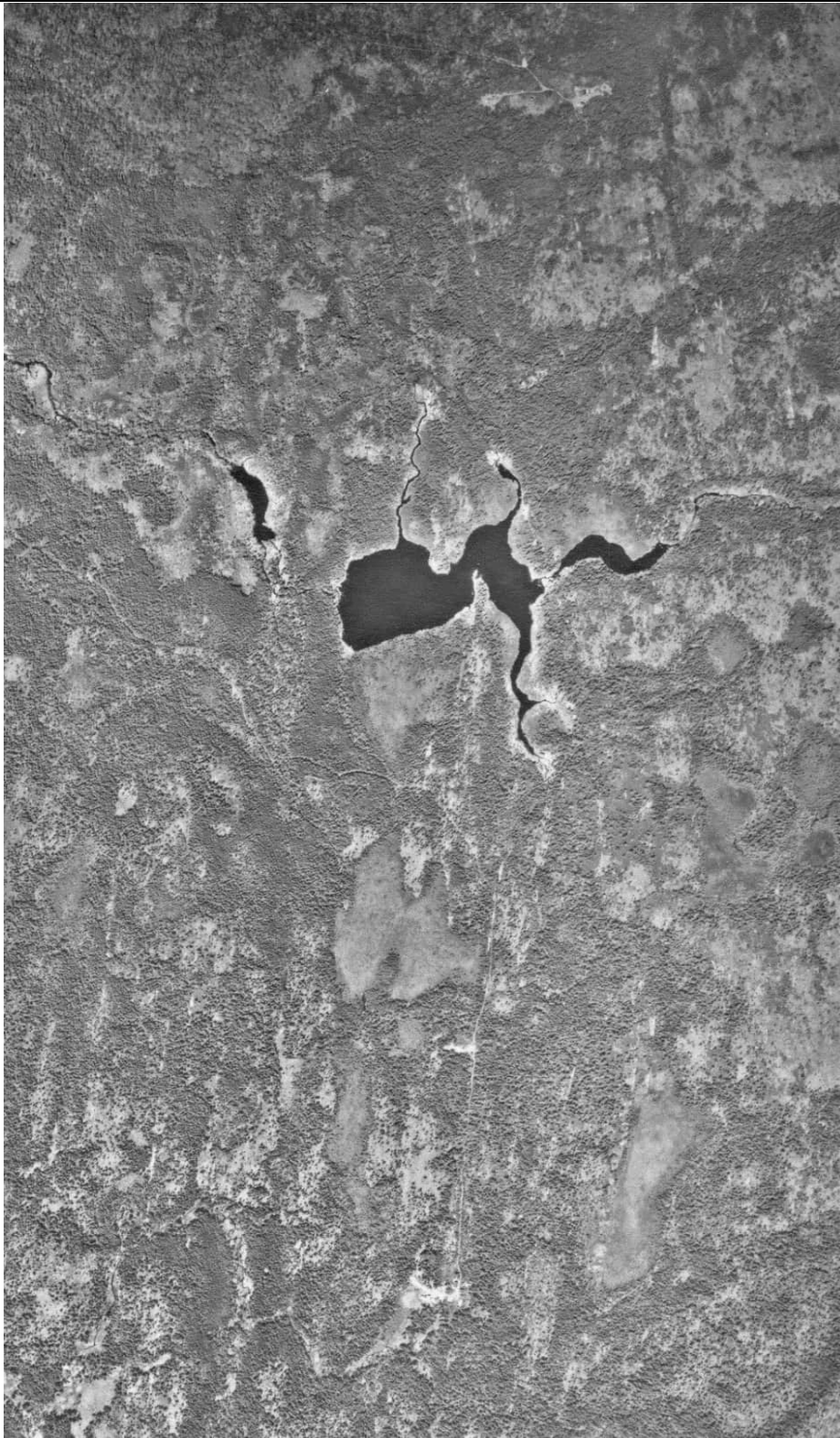


Photo 6: 1964 - A18361_073 (NAPL)



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

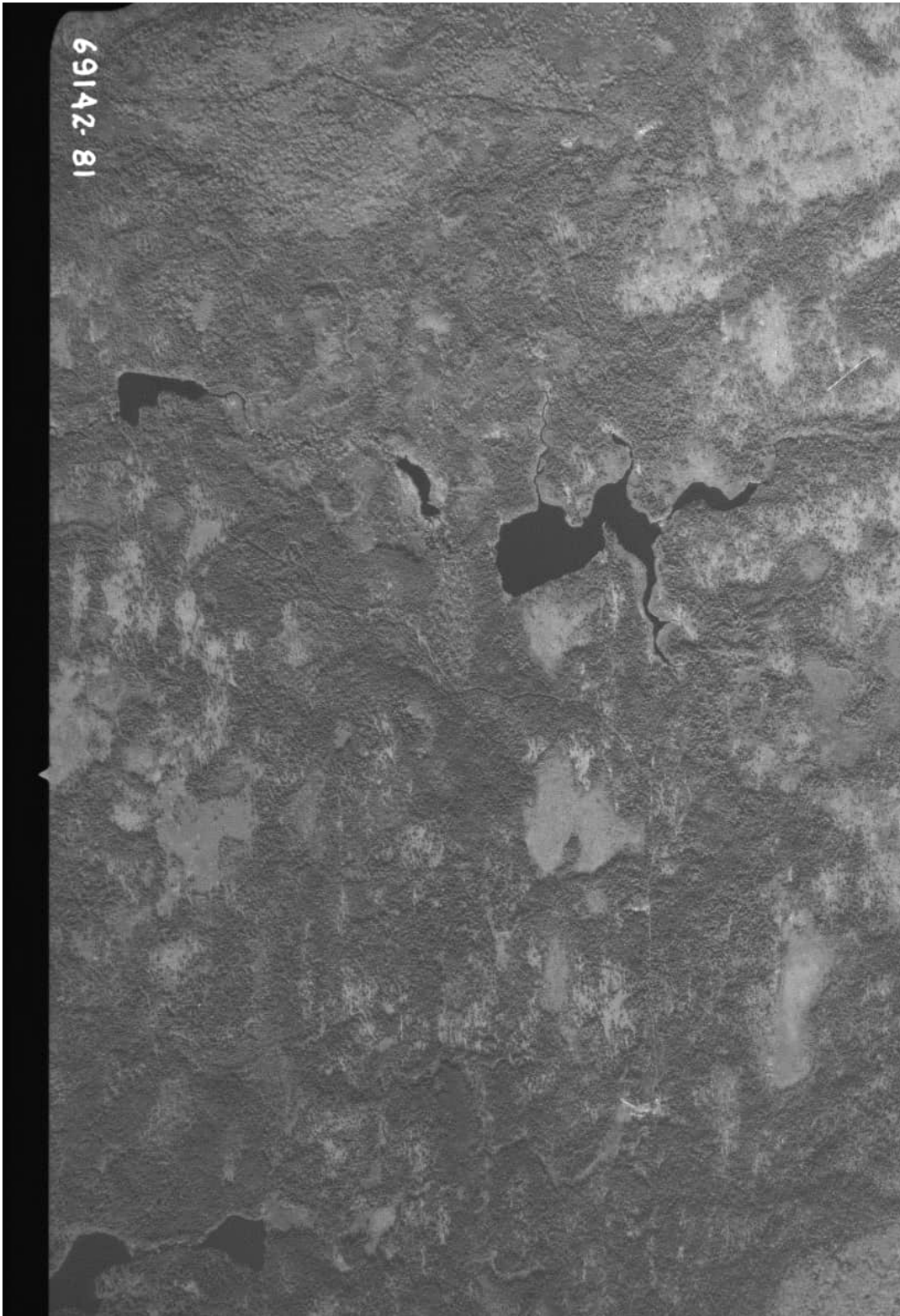


Photo 7: 1969 - 69142_081 (GEONOVA)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

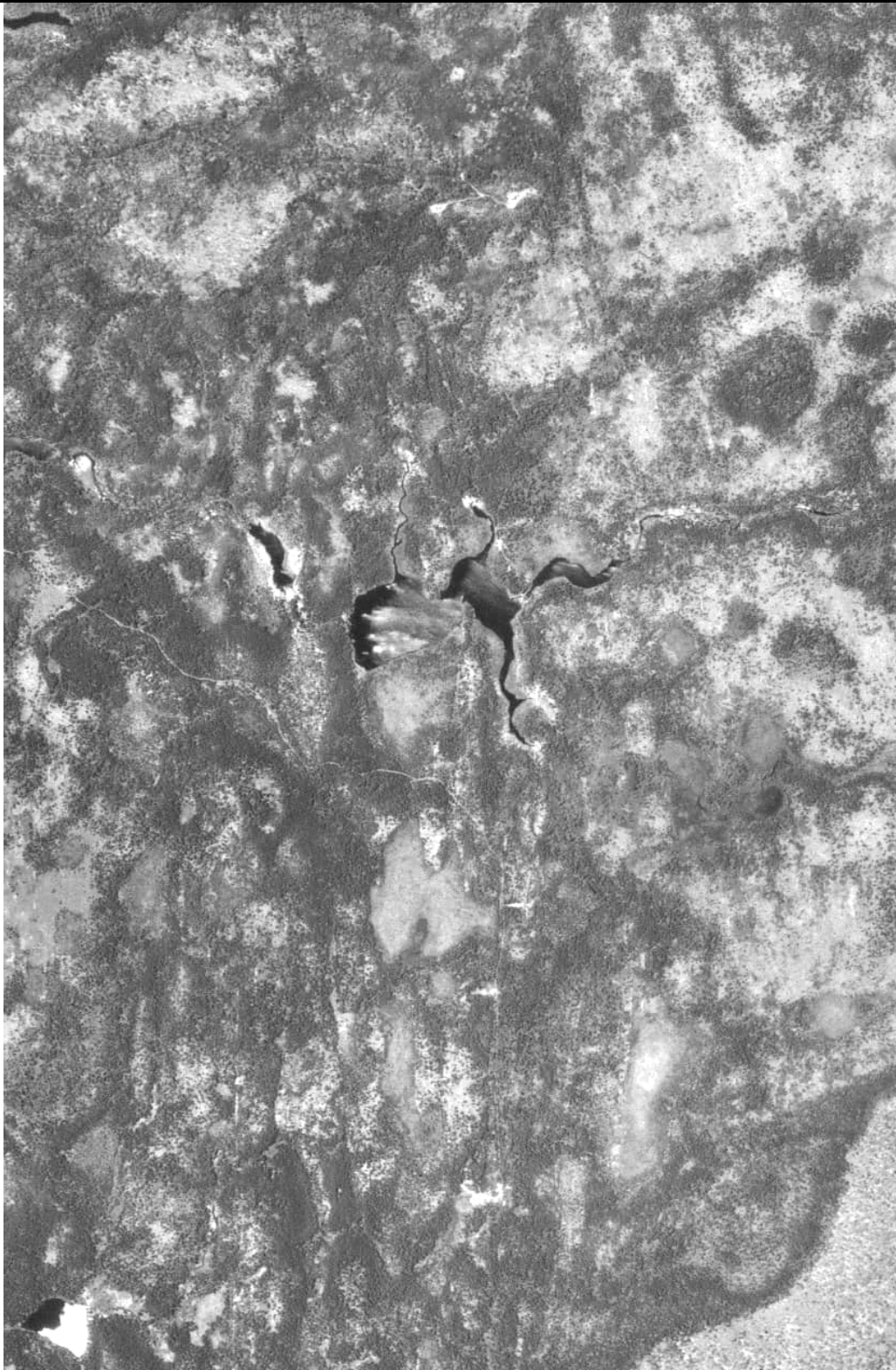


Photo 8: 1970 - A21427_085 (NAPL)



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 9: 1979 - A25196_042 (NAPL)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 10: 1980_80302_059 (GeoNova) - Subsite 3 only

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

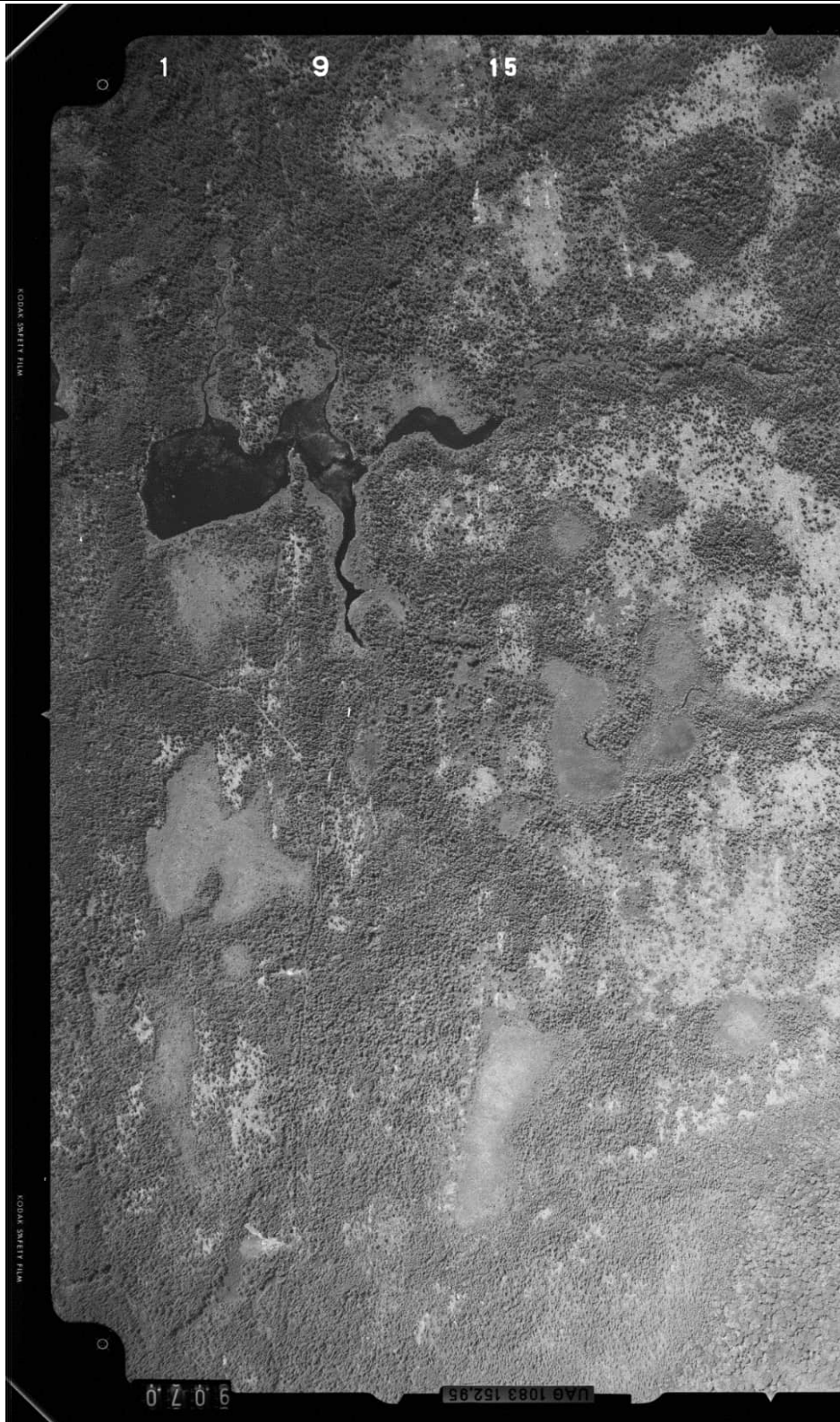


Photo 11: 1980 - 80302_060 (GeoNova) - Subsite 3

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 12: 1985 - Unnamed (Google Earth)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 13: 1989 - 89010_080_041 (GeoNova)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

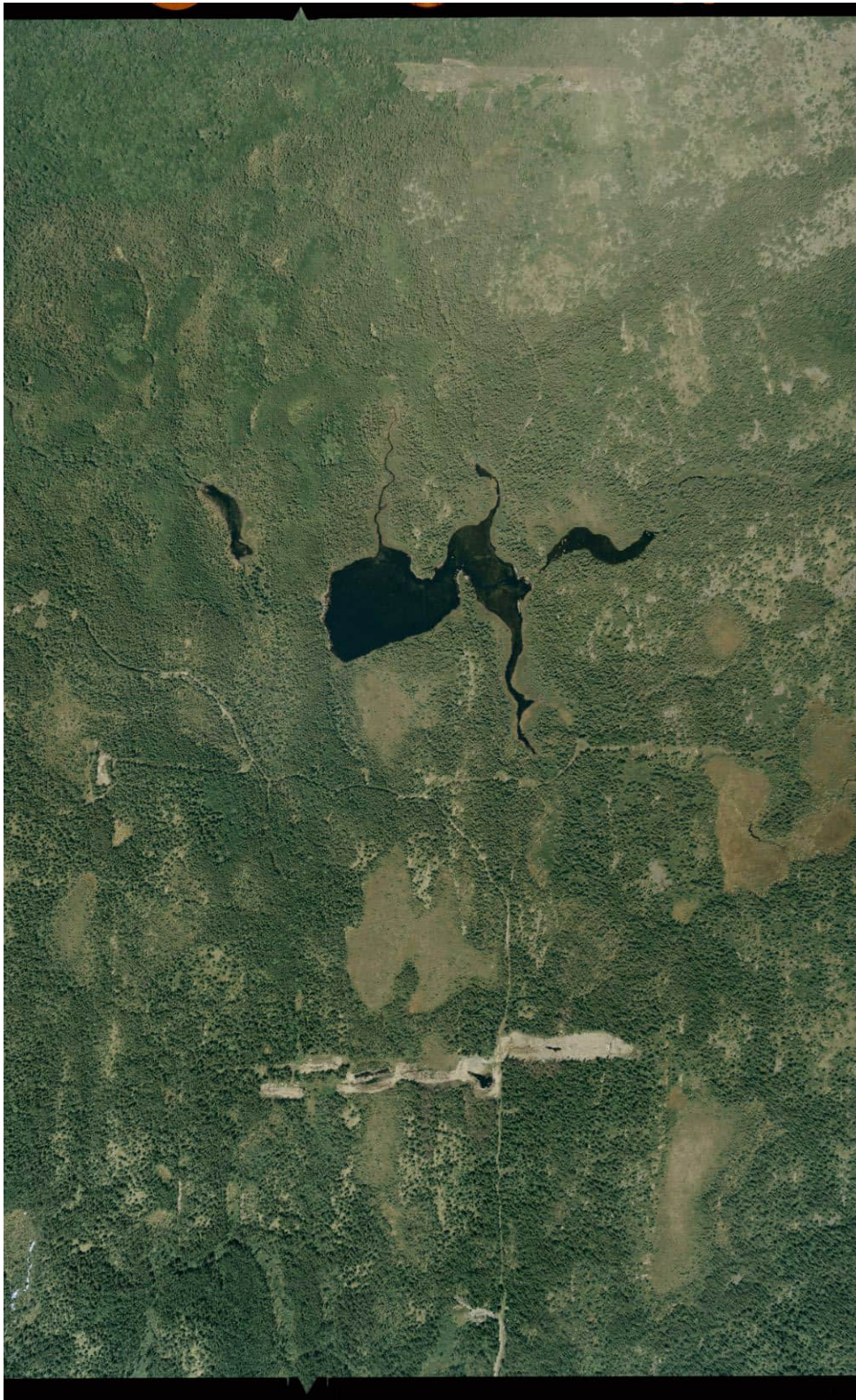


Photo 14: 1991 - 91309_202_009 (GeoNova)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 15: 1991 - 91309_204_009 (GeoNova) - Subsite 3



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 16: 1998 - 98312_122_008 (GeoNova) - Subsites 1&2

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 17: 1998_98312_124_008 (GeoNova) - Subsite 3

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 18: 2003 - Unnamed (Google Earth)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

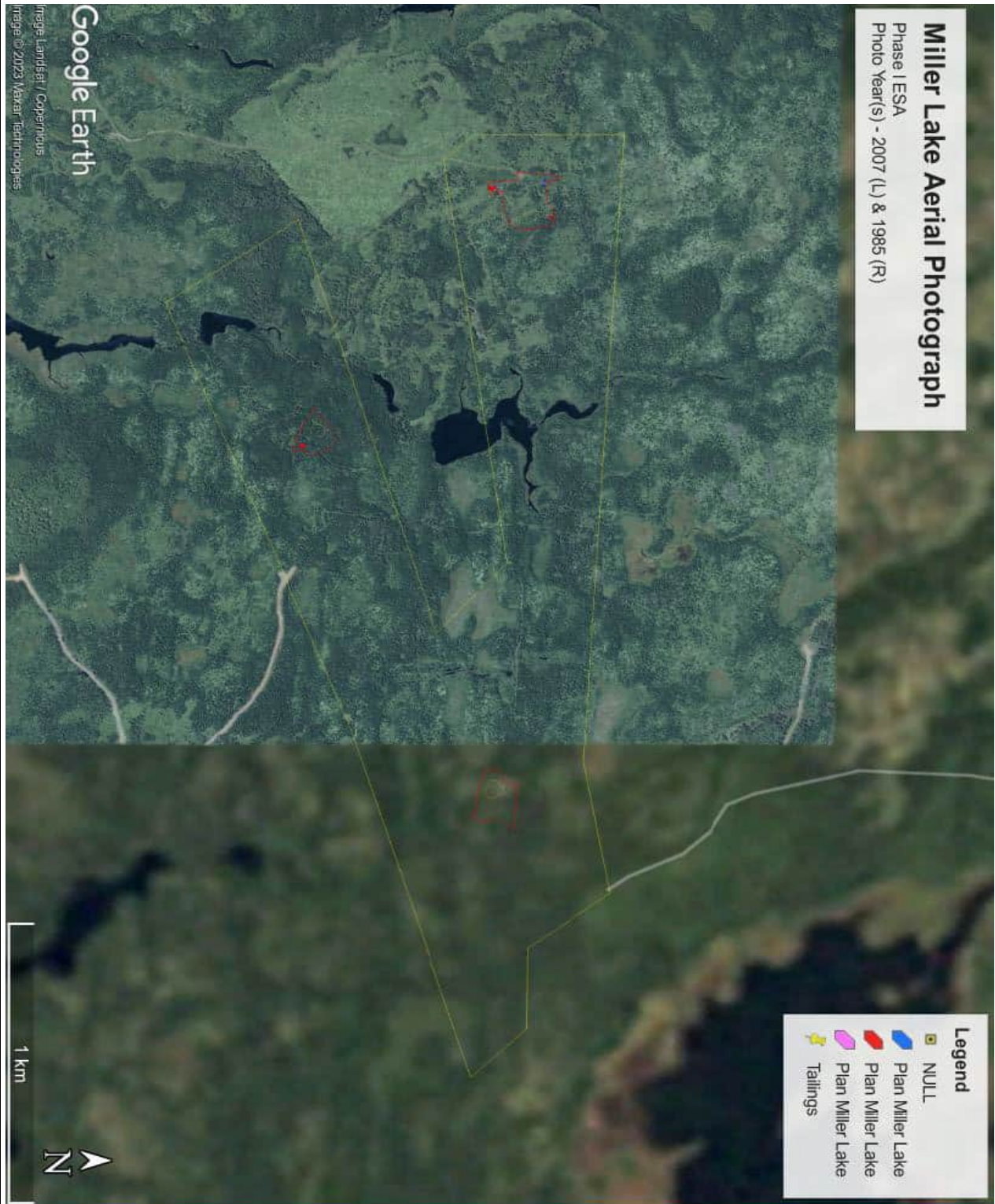


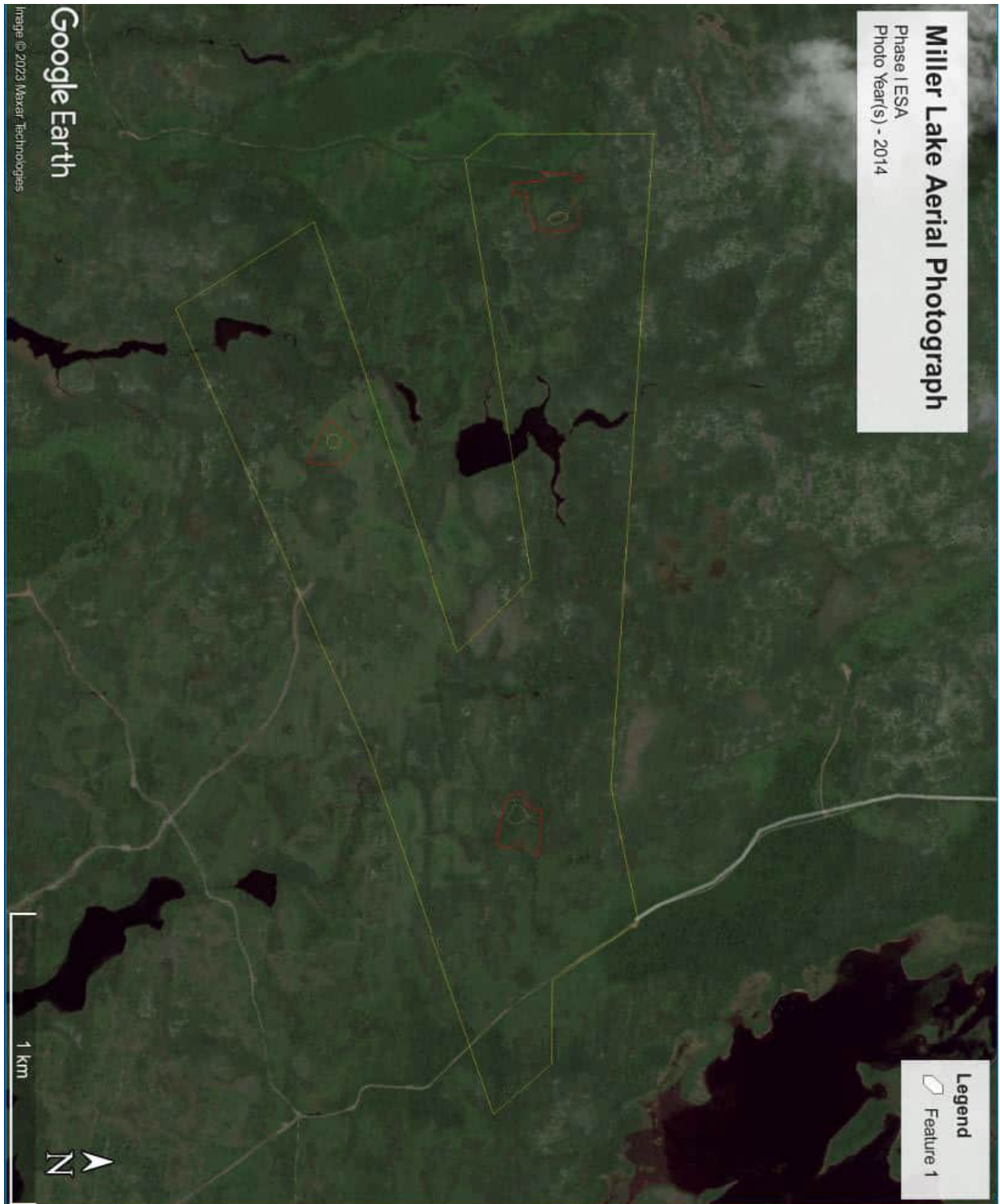
Photo 19: 2007 - Unnamed (Google Earth)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 20: 2008 - 2008313_079_008 (GeoNova)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Miller Lake Aerial Photograph
 Phase I ESA
 Photo Year(s) - 2014

Photo 21: 2014 - Unnamed Photograph (Google Earth)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 22: 2017 - Unnamed Photograph (Google Earth)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 23: 2019 - Unnamed Photograph (Google Earth)



Miller Lake Gold Mining District

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 24: 2019 - 20190806_0191_008 (GeoNova) - Subsites 1 & 2

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

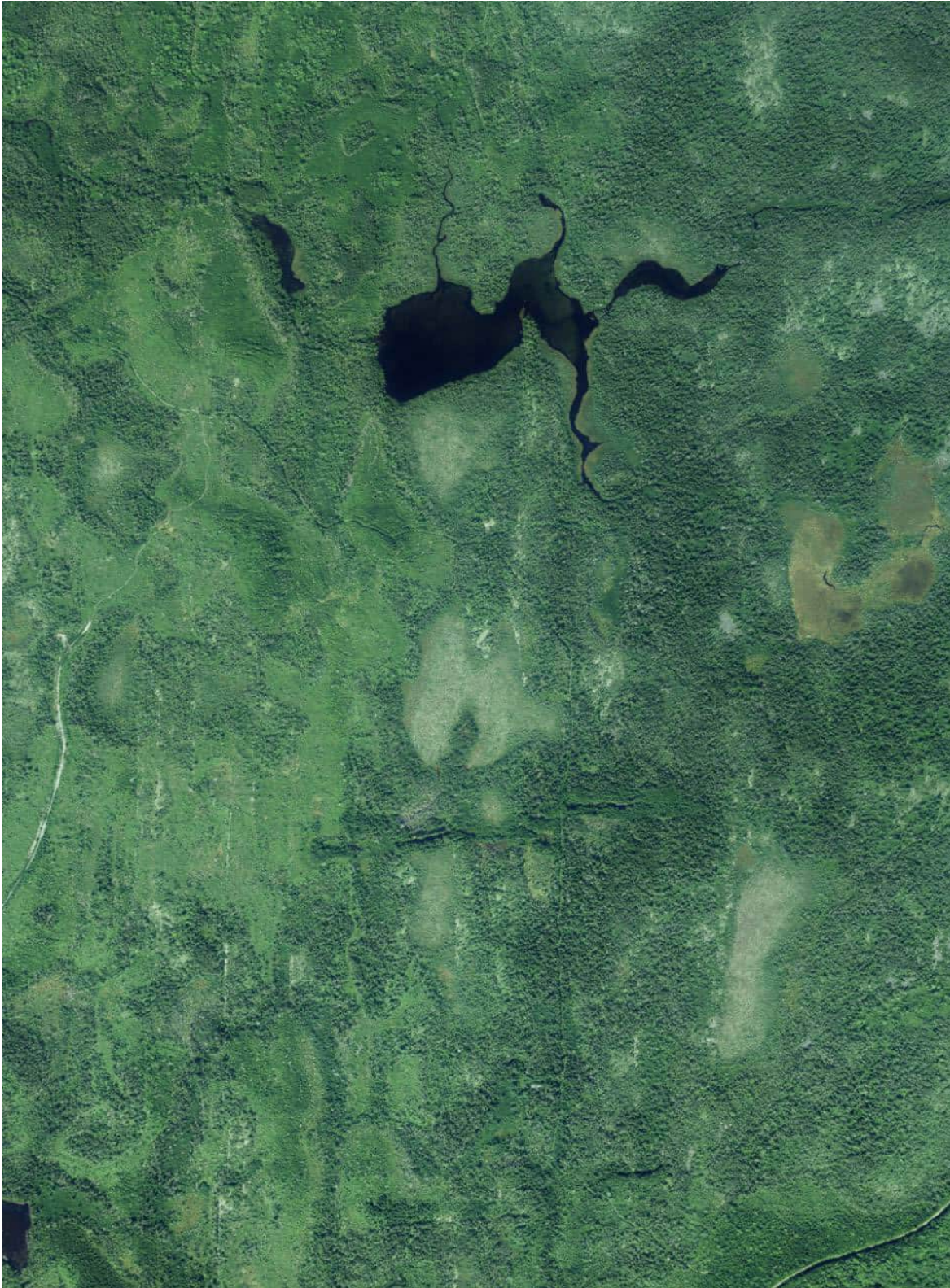


Photo 25: 2019 - 2019_20190806_0192_008 (GeoNova) - Subsites 2 & 3

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

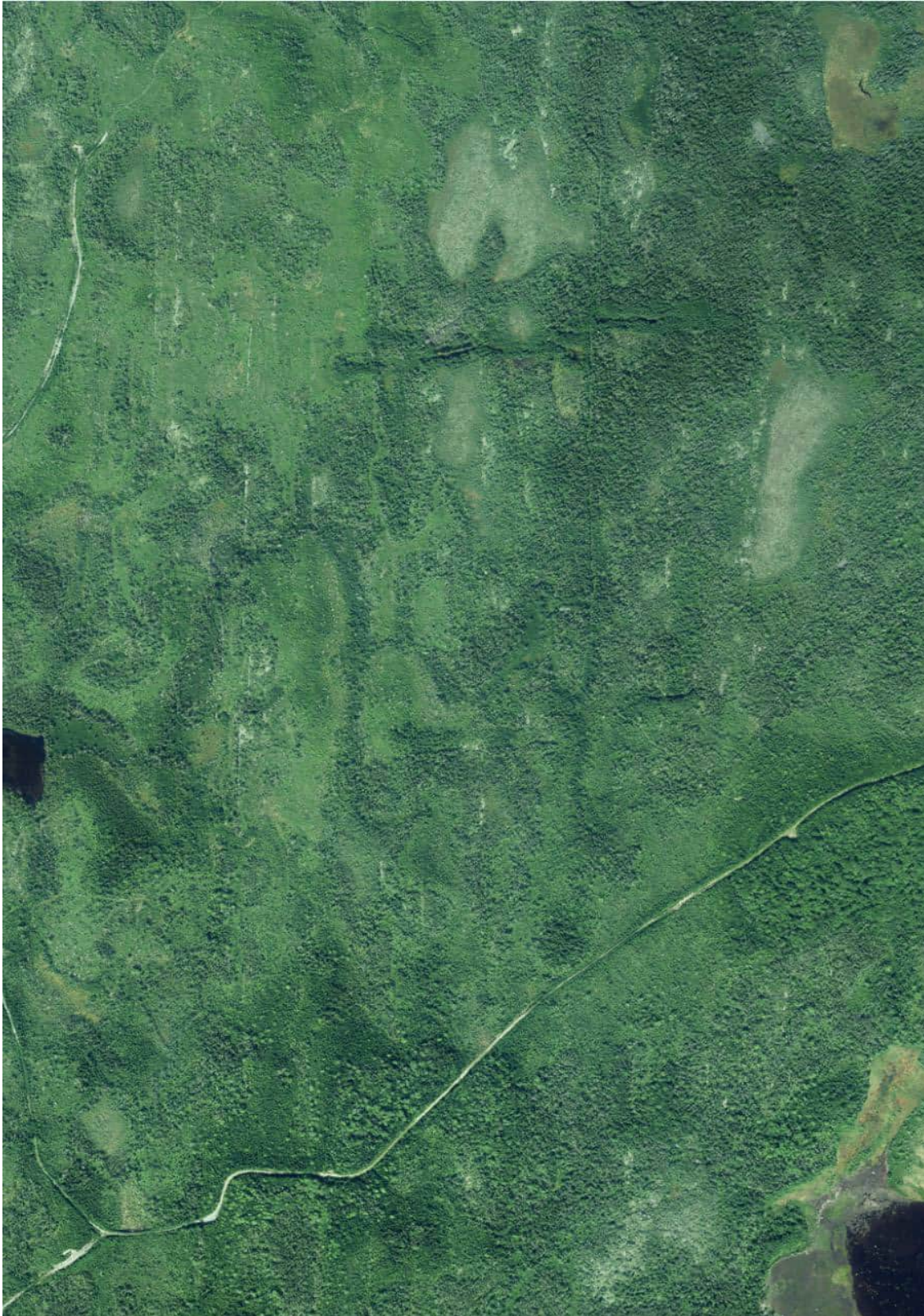


Photo 26: 2019 - 20190806_0193_008 (GeoNova) - Subsite 3

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967



Photo 27: 2020 - Unnamed Photograph (Google Earth)

Client:	Build Nova Scotia
Project:	Phase I Environmental Site Assessment of Miller Lake
Project Number:	60711967

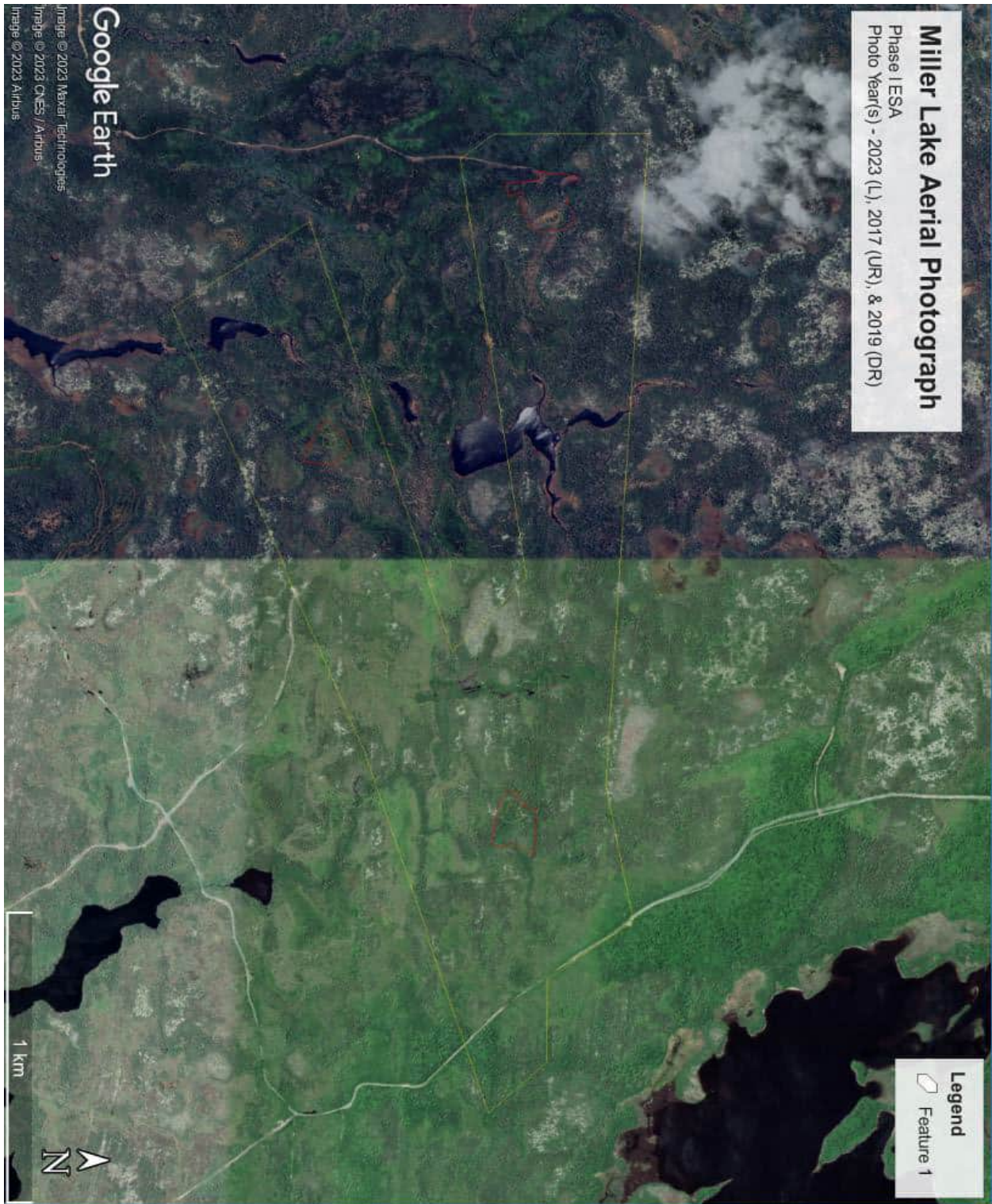


Photo 28: 2023 - Unnamed Photograph (Google Earth)

Appendix **D**

Interview Records



Interview

Ernie Hennick (NS DNR) on August 3, 2023

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
SITE RECONNAISSANCE INTERVIEW QUESTIONNAIRE**

Project Number: 60711967 **Client:** Build Nova Scotia (BNS)
Interviewer: Dave Forrester (DF), AECOM **Interviewee:** Ernie Hennick (EH), NSDNR
Date/Time of Call: August 3, 2023, at ~11am
Address of Site: Miller Lake Gold District - Abandoned Mine Site(s)
Subsite 1: Western subsite, containing the Zenith Tailings
Subsite 2: Central subsite, containing Liscomb Tailings
Subsite 3: Eastern subsite, containing the Dickson Tailings

Table 1: Interviewer (AECOM) Questions and Interviewee (NSDNR) Responses

1	Question: Abandoned Mine Opening (AMO) locations, as expected, don't seem to match with the old Gold District map overlay, so presumably the locations are the most accurate – what is their accuracy (+/- in metres) as this must be considered when in the field trying to avoid them.
	Response: The majority have been marked with GPS, so accuracy is within 5 or 10 metres dependent upon what side of the hole I took the reading from and depending on number of satellites. The most hazardous openings are the open cut trenching along the Little North Lead and a grouping of nasty, but flooded shafts, in around the Naugler property (maybe 200 feet North of the tailings) in the Western portion of the district.
2	Question: What is known about logging and clearing/grubbing activities in these areas – have there ever been any incidents (e.g. did anyone discover/damage/fall into any Mine Openings)?
	Response: No accidents I am aware of. The Western area was cut in the late 1980's, thus the alder overgrowth nowadays. The areas South and East of the Miller Lake were clearcut 10 years or so back. Most mine openings were left with a buffer of stumps around them, NSDNR left those communications to the Forestry guys.
3	Question: What is the potential/probability for <i>unidentified</i> mine openings in the three site areas (Zenith / Liscomb and Dickson).
	Response: The possibility exists thus I encourage a review of lidar. I would suspect more trenches and pits, but I did thorough traverses of the district.
4	Question: Are there any mine openings that are specifically worrisome/memorable as a hazard beyond what is provided in the NSDNR data. Are there any open shafts or are they all somewhat closed.
	Response: No remediation work has taken place. The majority of the mining shafts are flooded or ponded. Mining shafts cut into solid rock, (i.e., the Little North) are the most hazardous, but the instability of the ground around a number of the Naugler site shafts is notable. Proposed work has been delayed due to accessibility issues (i.e., bridge washouts). Consultation has taken place with provincial Regional Services staff about a risk-based approach for the site, given the swamps and wetlands (i.e., perhaps signage is sufficient given accessibility vs. biodiversity).
5	Question: Are there any known tailings areas; also, we noticed the quantity of tailings at Liscomb Site was extremely low. Is there potential for this quantity to be incorrect (much more)?
	Response: There are two easily identifiable tailings areas near the Naugler ^(AECOM NOTE 1) (just to the South as I recall) and the Boak site ^(AECOM NOTE 2) , with little evidence of such at the Liscomb Mills site. Only around 1,000 tonnes of tailing were milled in total.

	(AECOM NOTE 1): The Naugler AMO is located in Subsite 1: West. (AECOM NOTE 2): The Boak AMO is located in subsite 3: east.
6	Question: Are there any known of any areas of debris and/or building husks.
	Response: These are obvious around the Boak site (AECOM NOTE), but buried amongst the alders (i.e., gold equipment and such, near the Naugler site)
7	Question: Have NSDNR ever identified any of the following potential environmental concerns associated with the Miller Lake Site?
	<p>Response:</p> <ul style="list-style-type: none"> - Hazardous and liquid waste: NO - Non-hazardous Waste (debris): YES (at the Boak site). - Ozone depleting substances (ODS): NO - Polychlorinated biphenyls (PCBs): NO - Asbestos containing materials (ACMs): NO - Lead-based paints: NO - Mercury: YES (*AECOM NOTE) - Radioactive materials: NO - Radon gas: NO - Urea formaldehyde foam insulation: NO - Other hazardous materials and chemicals: NO - Fuel storage tanks (AST and UST) : NO - Pesticides/herbicides/agricultural chemicals: NO - Known Environmental studies, citations, enforcement, clean-up actions: NO <p>(*AECOM NOTE): Historical records indicate that amalgamation processing was used to extract gold from ore at the Mill. Therefore mercury impacts are a potential environment concern for the Site; however, mercury is not known to be currently stored at the Site.</p>
8	Question (follow-up via email): Previously Ernie was able to provide historical hard copy reporting available for other mining sites, which were stored at the DNR Halifax library location and I was wondering if this type of information was also available for review for the Miller Lake site.
	Response (1 Sept. 2023): No additional mapping/information available for the Miller Lake site.
9	Question(follow-up via email): Could Ernie provide any insight/knowledge/references/ etc. pertaining to gold extraction methods potentially/ suspected to be used at any of the Miller Lake sites.
	Response (5 Sept. 2023): The use of amalgamation (i.e. Mercury used to extract gold from ore) is mentioned numerous times in various assessment work he directed AECOM towards.

Interview

Dan Khan (NS DNR) on September 6, 2023

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
SITE RECONNAISSANCE INTERVIEW QUESTIONNAIRE**

Site Assessor: Derek Heath Client: Build Nova Scotia (BNS) Project Number: 60711967

AECOM Email Sent to: *BNS (Cory MacPhee) sent on behalf of NSDNR - September 2023*

Address of Site: *Abandoned Mine Site: Millar Lake Gold District*

Site Contact: *Dan Khan (NSDNR) - Email Response provided on 6 September 2023 via BNS*

QUESTION:

Could NSDNR please provide a list of specific reports, aerial photos (including years), lidar data (including years) and any other information sources that were used to generate the information associated with the DNR file (Goggle Earth layers) provided via email by Cory MacPhee on behalf of NSDNR on 7 July 2023.

RESPONSE:

In response to "Question 1", here are the data sources we used to compile the Google Earth KMZ file that we provided to AECOM - Miller_Lake_Mine_GIS_Overlays-2023-07-07.kmz.

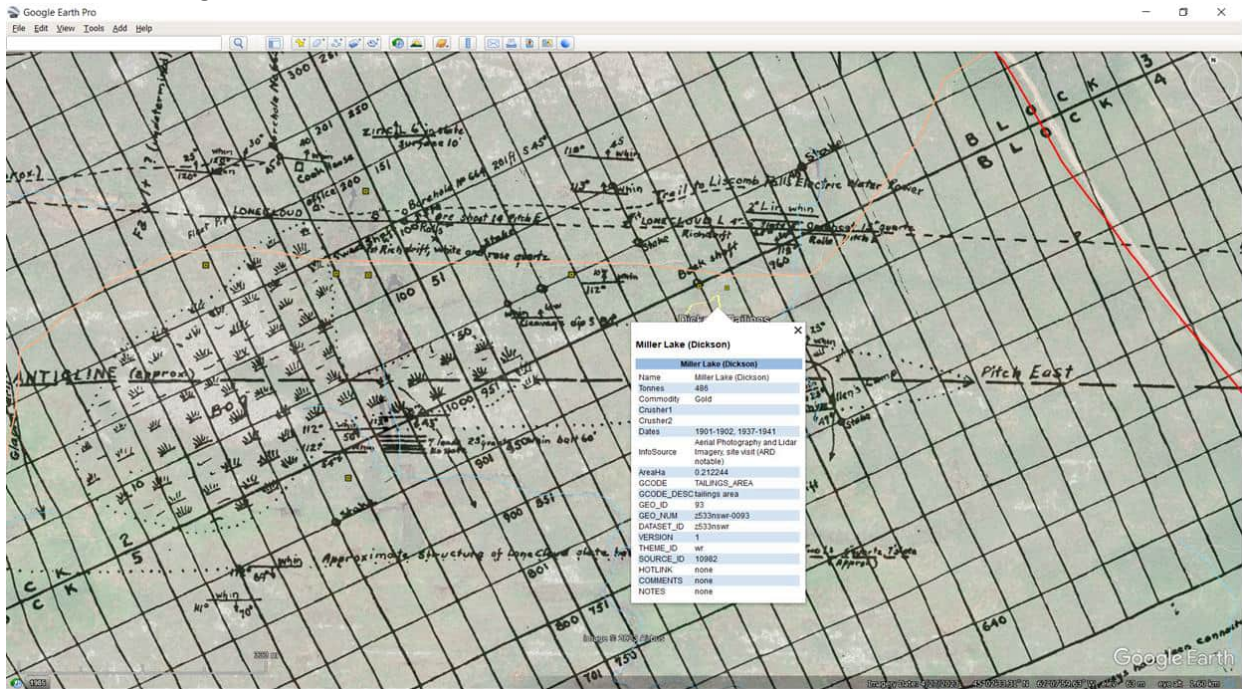
- Assessment Report ME 11E/01A 21-G-31(00)
 - https://novascotia.ca/natr/meb/data/ar/11E/AR_ME_11E01A_21-G-31_00_432101.pdf

- Open File Map ME 1939-004
 - https://novascotia.ca/natr/meb/data/mg/ofm/jpg/ofm_1939-004_200_cln.jpg

- DP ME 533, 2020, Nova Scotia Mine Tailings Database
 - NOTE: The NSDNR website contains the Metadata for this product that is available. <https://novascotia.ca/natr/meb/download/dp533md.asp>.
 - We understand it included some LiDAR analysis with the most recent LiDAR mapping available up to 2020; however, the specific years were not captured during the dataset creation. This comment also applies to aerial photo interpretations that may have been used to delineate the tailings outlines. References (InfoSource) are available, for example, as shown below in the KMZ files in the screen capture for the Dickson Tailings

- DP ME 10, Version 8, 2020. Nova Scotia Abandoned Mine Openings Database
 - Metadata <https://novascotia.ca/natr/meb/download/dp010md.asp>
 - The dataset provided to the consultants includes filed notes not available to the public and as provided to Build NS from Jeff Poole NSDNR and we subsequently extracted only the mine openings that were within the immediate project area as a subset in the KMZ file.

- All property information was extracted by Build NS GIS staff from the Property Online Database
- All digitized interpretations of structures were created by D. Khan after creating overlays from maps from the Assessment Report and Open File Map referenced above within Google Earth.



Assessment Report ME 11E/01A 21-G-31(00)

Display Search Results

Full Record

RECORD 73
ISN 3883
Title Gold, Miller Lake, Guysborough County, Nova Scotia. Miscellaneous Memos on Geology, Rock Geochemistry and Mine Operations
Author/Org Goudge, M G, Nova Scotia Department of Mines;
 Messervey, J P, Nova Scotia Department of Mines;
 Flynn, A E, Nova Scotia Department of Mines;
 Cole, E J, Nova Scotia Department of Mines;
 Grant, R I, Nova Scotia Department of Mines;
 Gold Syndicate Limited;
 Lone Cloud Gold Mines Limited;
 Miller Lake Gold Mining Company;
 Ventures Limited;
 Zenith Mining Corporation;
 Dickson, A;
 Naugler, G;
 Trinidad Mines Gas and Oil Limited
Document Assessment Report ME 11E/01A 21-G-31(00)
Published 1948
Pages 34 page(s)
Maps 1 map(s)
Map Types cross-section location, scale: 1:6000; geological, scale: 1:6000
Subjects arsenic; arsenopyrite; beneficiation tests; Cambrian; chemical analyses; cross-sections; economic geology; Evangeline Mine; galena; geochemistry; gold; lead; Lone Cloud Mine; Meguma Group; metallic minerals; mineral deposits; mineralization; mineralogy; mines; Ordovician; pits; production; quartz; regional geology; rock geochemistry; sericite; serpentine; shatts; slates; vein deposits; zinc
Areas Guysborough County; Miller Lake; Miller Lake Gold District
NTS 11E/01A
Licence Exploration Licence 3397
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Open File Map ME 1939-004

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Display Search Results

Full Record

RECORD 8

ISN 8750

Title Miller Lake Gold District: Surface Plan of Property [1:480]

Author/Org Lone Cloud Gold Mines Limited;
Nova Scotia Department of Mines and Energy

Document Open File Map ME 1939-004

Published 1939

Pages 0 page(s)

Maps 1 map(s)

Map Types mine site plan, scale: 1:480

Subjects Cambrian; gold; Meguma Group; metallic minerals; mining properties; Ordovician; pits; quartz veins; shafts; trenches

Areas Guysborough County; Miller Lake; Miller Lake Gold District

NTS 11E/01A

Licence

Long/Lat -62 8 50 / 45 7 00; -62 9 30 / 45 7 00; -62 9 30 / 45 7 30; -62 8 50 / 45 7 30

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