

Appendix J

STRUM CONSULTING / 2023. OLD GROWTH FOREST ASSESSMENT.
L8006 TRANSMISSION LINE RIGHT-OF-WAY, CUMBERLAND AND
COLCHESTER COUNTIES, NS



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June 26, 2023

Mr. Daniel Thompson
Nova Scotia Power Inc.
1223 Lower Water Street
Halifax, NS B3J 3S8

Dear Mr. Thompson,

Re: Old-Growth Forest Assessment
L8006 Transmission Line Right-of-Way, Cumberland and Colchester Counties, NS

INTRODUCTION

Strum Consulting was retained to complete an old-growth forest assessment along the proposed L8006 Transmission Line Right-of-Way (ROW) (the Project).

The Project consists of a high-voltage transmission line that extends from Lower Onslow, NS to the New Brunswick/Nova Scotia border near Amherst, NS. The L8006 ROW runs parallel along the northeast side of the existing L8001 transmission line.

The objective of this assessment was to collect information on the presence of old-growth forest on Crown Lands within 100 m of the ROW (the Study area) to inform avoidance and mitigations for this habitat throughout the Project's development.

To achieve the study objective, the following tasks were completed:

- Desktop Review
- Old-Growth Forest Scoring

This report describes the methodologies and results of the 2023 assessment.

ASSESSMENT METHODOLOGY

Desktop Review

A desktop review was undertaken to determine suitable areas for old-growth assessments within a 100 m buffer of the Transmission Line ROW. This was completed using aerial imagery and the NS Natural Resource and Renewables (NSNRR) forest inventory database to determine forest stands along the



Transmission Line ROW where stand height and species composition indicated potential old-growth conditions. As well, the Old-Growth Potential Index, supplied by NSNRR, was reviewed to support this process. The Old-Growth Potential Index assigns scores to forest stands based on the potential for old-growth characteristics to be present.

The Old-Growth Potential Index was designed to exclude stands that are too short, lack climax species, have undergone silvicultural treatment since 1990, or have experienced significant burning in recent history. A review of this layer eliminated stands that would not be considered for assessment, and brought attention to stands that may require field assessment. Aerial imagery and the NSNRR Provincial Forest Inventory were reviewed in combination with the Index to gain a more holistic understanding of the forest stands. Ultimately, stands with a Potential Old-Growth Rank of 9 to 11 were mapped as target stands for the field assessment (see Drawing 1, Attachment 1). Within the target stands, prioritizing ranks ≥ 10 , study plots were randomly placed across the stand for field assessments. It should be noted that the assessment was limited to Crown lands.

As determined by the Old Forest Scoring Procedures (NSNRR, 2022a), the number of plots selected is based on the area of the forest stand, as follows in Table 1.

Table 1: Number of Sample Plots According to Overall Stand Size

Stand Size	Number of Sample Plots
1– 5 hectares	3
5 – 10 hectares	5
10+ hectares	One plot per 2 hectares, a maximum of 10 plots

Field Methodology

Forest stands with a Potential Old-Growth Rank of ≥ 10 were assessed for old-growth conditions within 100 m of the Transmission Line ROW (see Drawing 1, attached). Field biologists with demonstrated experience in conducting old-growth forest assessments travelled to the pre-determined sample plot locations. At each plot, a rapid assessment for old-growth conditions was conducted.

Where the rapid assessment was inconclusive or indicated potential for old-growth, Part 1 of the old-growth scoring procedure, as defined by NSNRR (2022a), was employed. At each plot, a tree core was retrieved and analyzed with a microscope to determine the average stand age. Relevant photos were also taken to accompany the surveys.

ASSESSMENT RESULTS

Old-Growth Survey

The old-growth survey examined a total of 12 stands, including nine stands with a Potential Old-Growth Rank of 10 and three stands with a Potential Old-Growth Rank of 11. None of the examined stands met the criteria for old growth, see Table 2 below for a summary of results. Two stands (Mapstand IDs D167-00160 and D167-00197) with a Potential Old Growth Rank of 10 were visually assessed and found to be almost

entirely harvested. One treed swamp and one small wildlife patch were left intact in stand D167-00197. The old-growth scoring procedure was not carried out at these stands. One stand (Mapstand ID E167-04764) with a Potential Old Growth Rank of 9 was found to be almost entirely lost due to blowdown, likely resulting from Hurricane Fiona. After visually assessing this stand, the old-growth scoring procedure was not carried out. Three additional stands (Mapstand IDs E167-04223, E167-04467, and E167-04226) each had small sections of area flagged as potential old growth (40%, 12%, and 25% of the stand, respectively). When these stands were viewed with aerial imagery, it was found that large portions of each stand have been previously harvested. These stands were therefore excluded from field surveys. Detailed field survey results and photos of old-growth assessments are attached as Attachment 2 and 3 (respectively).

Table 2: Summary of Old-Growth Survey Results

Stand ID	Stand Size (ha)	Potential Old Growth Rank	Plot #	Species Cored	DBH (cm)	Height (m)	Age (years)	Old Growth Reference Age (years)	Avg. Stand Age	Old Growth Status
E167-04760	4.0	10	1	yB	20.0	11.0	55	140	67	Not Old Growth
			2	sM	24.0	12.0	70			
			3	sM	46.0	25.0	75			
E167-04538	3.7	10	1	sM	30.5	16.4	65	140	85	Not Old Growth
			2	sM	23.6	12.1	75			
			3	sM	25.7	12.3	114			
E167-04511	3.7	10	1	rM	30.0	14.5	67	140	85	Not Old Growth
			2	rM	35.6	22.0	56			
			3	yB	43.8	19.0	132			
E167-04539	2.6	10	1	N/A	N/A	N/A	N/A	140	118	Not Old Growth
			2	yB	43.1	17.5	115			
			3	yB	49.2	18.0	120			
E167-04740	8.7	11	1	yB	39.6	18.0	132	140	112	Not Old Growth
			2	sM	25.1	19.0	82			
			3	sM	29.5	16.0	98			
			4	sM	37.6	18.0	78			
			5	yB	40.4	16.0	172			
D173-02456	2.9	10	1	rS	17.2	13.0	65	125	69	Not Old Growth
			2	bF*	30.2	17.5	35			
			3	rS	27.7	16.5	73			
D173-02416	3.1	10	1	rS	31.3	16.0	96	115	89	Not Old Growth
			2	rS	31.4	18.5	91			
			3	rS	30.2	18.0	80			
D173-02414	6.1	11	1	rS	31.3	16.0	110	115	69	Not Old Growth
			2	rS	23.1	20.5	44			
			3	rS	19.2	16.5	47			
			4	rS	21.7	16.9	73			
			5	rS	16.7	11.0	72			

Stand ID	Stand Size (ha)	Potential Old Growth Rank	Plot #	Species Cored	DBH (cm)	Height (m)	Age (years)	Old Growth Reference Age (years)	Avg. Stand Age	Old Growth Status
D173-02367	3.3	10	1	rS	40.9	21.0	87	125	107	Not Old Growth
			2	rS	47.4	24.0	104			
			3	rS	37.4	23.0	131			
D173-02371	3.6	10	1	rS	33.6	16.0	56	125	61	Not Old Growth
			2	rS	28.9	16.0	51			
			3	rS	32.6	19.0	75			
D173-02372	2.8	11	1	rS	21.6	17.0	46	115	91	Not Old Growth
			2	rS	37.3	21.5	133			
			3	rM	34.6	22.0	94			
D173-02412	5.8	10	1	rS	33.4	17.5	91	115	77	Not Old Growth
			2	rS	35.6	18.0	108			
			3	rS	33.8	19.5	79			
			4	rS	30.8	18.0	58			
			5	rS	28.9	16.0	51			

*Tree not included in average age

CONCLUSION AND RECOMMENDATIONS

The surveys completed along the Transmission Line ROW identified no stands meeting the criteria of old-growth. Furthermore, it was found that two of the stands identified by the Old Growth Potential Index have been harvested, and additional stands have experienced significant blowdown events likely resulting from Hurricane Fiona which has left large portions of the stands with no remaining living trees. All stands that were identified by the Old Growth Potential Index and later scored during field assessments were found to contain vegetation types that are eligible to be considered old growth, but have not yet reached the age of onset for old-growth.

Based on the results of the old-growth surveys, no further assessments, mitigation, or monitoring are recommended.

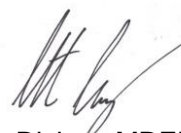
CLOSURE

We trust the above to be satisfactory. If you have any questions, please don't hesitate to contact us.

Thank you,



Dafna Schultz, MREM, EPT
 Environmental Scientist
dschultz@strum.com

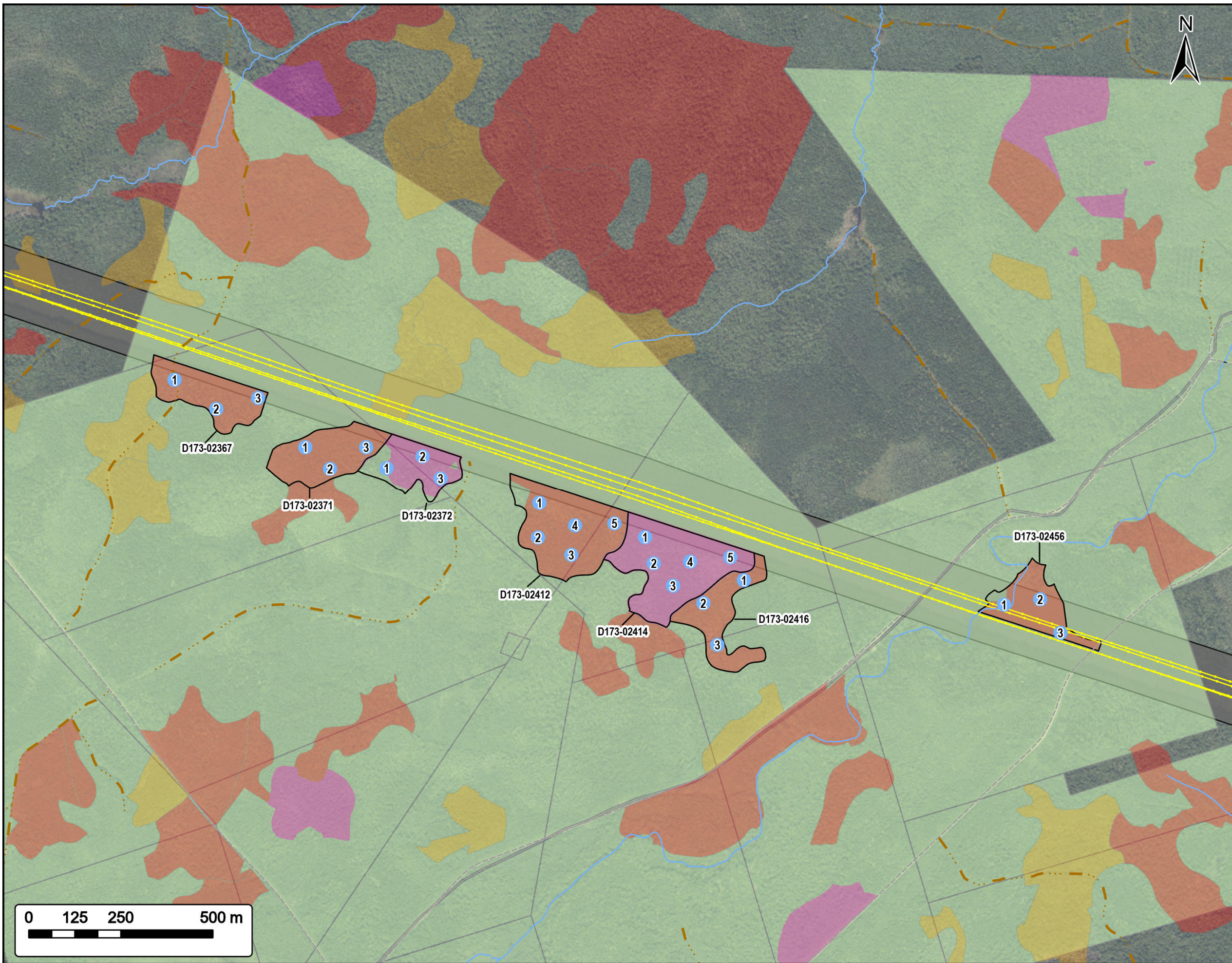


Scott Dickey, MREM
 Senior Environmental Scientist
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REFERENCES

Nova Scotia Department of Natural Resources and Renewables (NSNRR). (2022a). *Old Forest Assessment – Procedures Version 1.3 August 15, 2022*. Retrieved from <https://novascotia.ca/natr/forestry/programs/ecosystems/pdf/old-forest-scoring-procedures.pdf>

ATTACHMENT 1
DRAWINGS



L8006 Proposed Transmission Line
Old Growth Assessment

Legend

- Plot Location
- Proposed L8006 Transmission Line ROW
- ROW Buffer (100m)
- Forested Inventory Stand
- Crown Land

Old Growth Potential

Rank

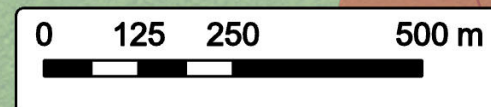
- 9
- 10
- 11

Transportation

- Road
- Unpaved Road
- Track

Water Features

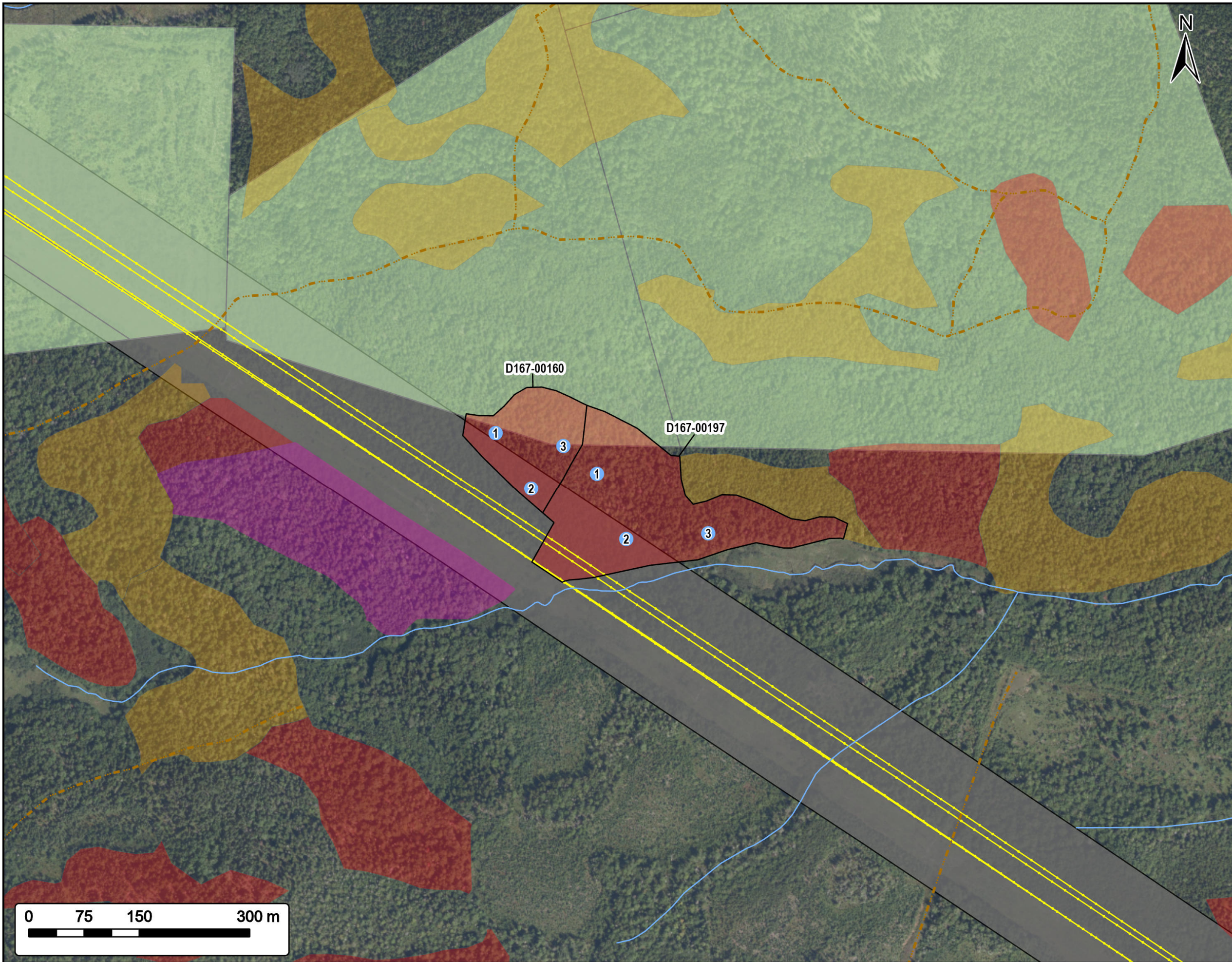
- Mapped Stream
- Mapped Indefinite Stream



Coordinate System: NAD83 UTM Zone 20N Sources: ESRI Basemaps, GeoNOVA, NSTD, HERE, Garmin, USGS, NRCAN

Date: June 2023	Project #: 22-8446
Scale: 1:10,000	Drawing #: 1A
Drawn By: E. Johnson	1A
Checked By: S. Dickey	





L8006 Proposed Transmission Line Old Growth Assessment

Legend

- Plot Location
- Proposed L8006 Transmission Line ROW
- ROW Buffer (100m)
- Forested Inventory Stand

Crown Land

- Crown Land

Old Growth Potential

Rank

- 9
- 10
- 11

Transportation

- - - Track

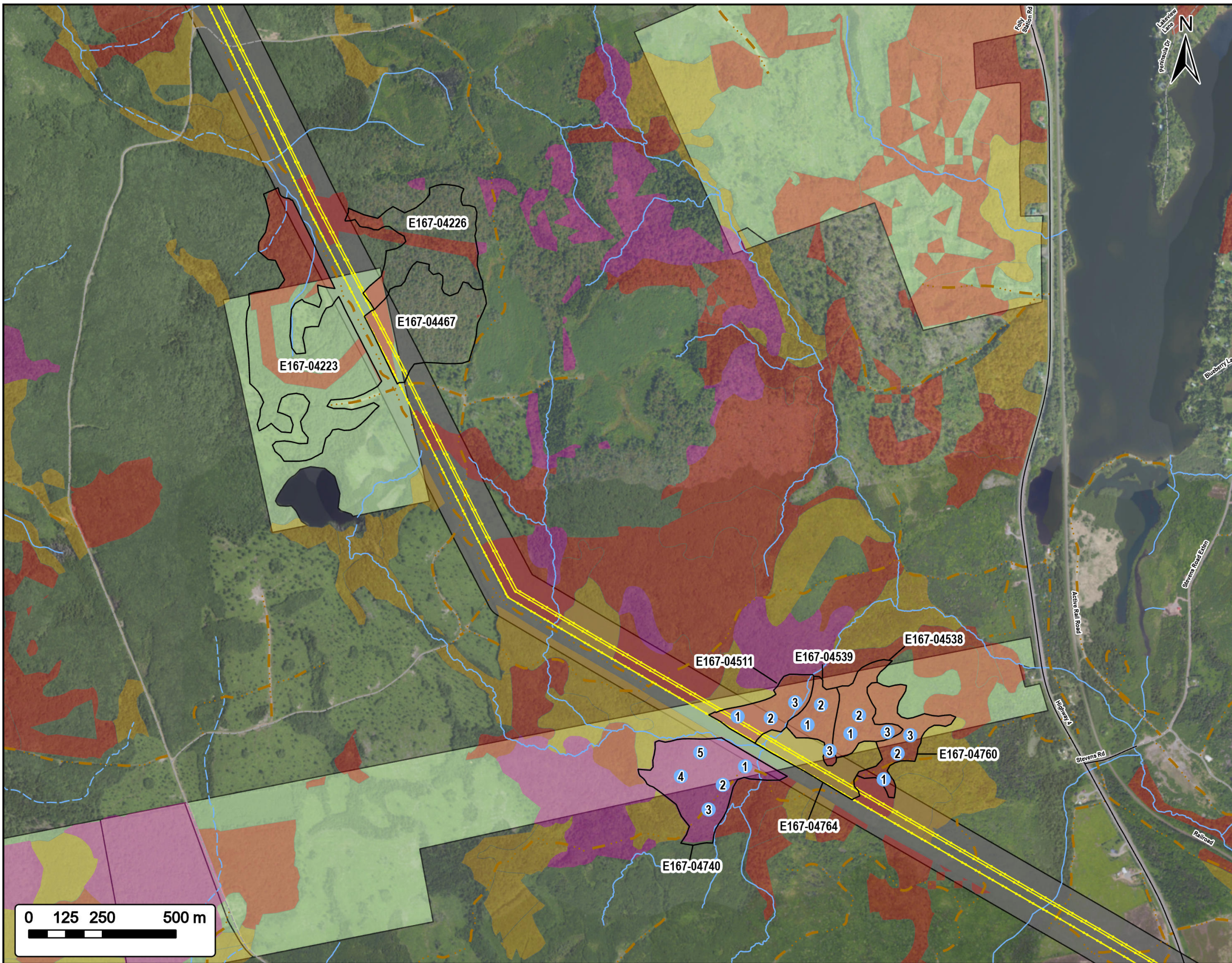
Water Features

- Mapped Stream
- - - Mapped Indefinite Stream

Sources: ESRI Basemaps, GeoNOVA, NSTD, HERE, Garmin, USGS, NRCan

Date: June 2023	Project #: 22-8446
Scale: 1:5,000	Drawing #:
Drawn By: E. Johnson	1B
Checked By: S. Dickey	





L8006 Proposed Transmission Line
Old Growth Assessment

Legend

- Plot Location
- Proposed L8006 Transmission Line ROW
- ROW Buffer (100m)
- Forested Inventory Stand

Crown Land

- Crown Land

Old Growth Potential

Rank

- 9
- 10
- 11

Transportation

- Road
- Unpaved Road
- Track

Water Features

- Mapped Stream
- Mapped Indefinite Stream



Coordinate System: NAD83 UTM Zone 20N Sources: ESRI Basemaps, GeoNOVA, NSTD, HERE, Garmin, USGS, NRCAN

Date: June 2023	Project #: 22-8446
Scale: 1:12,500	Drawing #: 1C
Drawn By: E. Johnson	
Checked By: S. Dickey	



ATTACHMENT 2
SCORING RESULTS

GIS Mapstand: E167-04760

Plot Number: 1

Date: 03/29/2023

UTM: 20T 456501 5041177

VT: TH1b/TH2a

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	yB	bF						
2								
4								
6								
8								
10	1							
12		2						
14		1						
16								
18	1	1						
20	3							
22								
24								
26								
28								
30								
32		1						
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04760

Plot Number: 2

Date: 03/29/2023

UTM: 20T 456565 5041258

VT: TH1/TH2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM	yB	bF					
2								
4		2						
6								
8								
10								
12								
14								
16			1					
18	1							
20								
22	1							
24	3							
26								
28								
30								
32								
34								
36								
38								
40		1						
42								
44								
46								
48		1						
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04760

Plot Number: 3

Date: 03/29/2023

UTM: 20T 456622 5041335

VT: TH1/TH2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM	yB	bE					
2								
4		1						
6	1							
8								
10			1					
12	1							
14								
16	1							
18	1							
20	1							
22								
24								
26								
28								
30	1							
32								
34	2							
36	1							
38								
40								
42								
44								
46	1							
48	1							
50								
52								
54								
56		1						
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04538

Plot Number: 1

Date: 03/29/2023

UTM: 20T 456400 5041325

VT: TH1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM	yB						
2								
4								
6								
8								
10	1	1						
12								
14								
16	1							
18								
20	1							
22	2							
24								
26	1							
28								
30	1							
32								
34	1							
36								
38								
40								
42		1						
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04538

Plot Number: 2

Date: 03/29/2023

UTM: 20T 456413 5041389

VT: TH1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	yB	sM						
2								
4								
6								
8								
10								
12	1							
14	1							
16		1						
18	1							
20	2							
22		1						
24		1						
26								
28								
30								
32								
34								
36								
38								
40		1						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04538

Plot Number: 3

Date: 03/29/2023

UTM: 20T 456522 5041322

VT: TH1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	yB	sM	bF					
2								
4								
6								
8								
10								
12								
14	1							
16								
18								
20								
22		1						
24								
26		1						
28		1						
30			1					
32								
34		1						
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04511

Plot Number: 1

Date: 03/30/2023

UTM: 20T 456020 5041362

VT: TH7/TH8

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rM	yB	wB					
2								
4								
6								
8								
10								
12								
14								
16		2						
18								
20		1						
22								
24								
26	1		1					
28	1							
30	2	1						
32		1						
34								
36								
38								
40								
42								
44								
46								
48	1							
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04511

Plot Number: 2

Date: 03/30/2023

UTM: 20T 456114 5041359

VT: TH8

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rM	yB	rS					
2								
4								
6								
8								
10								
12		1						
14		1						
16		1						
18		1						
20								
22		1						
24								
26		1						
28								
30	1							
32								
34			1					
36	2							
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04511

Plot Number: 3

Date: 03/30/2023

UTM: 20T 456229 5041419

VT: TH1/TH2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM	yB	rM					
2								
4								
6								
8								
10								
12	1							
14								
16								
18	1	1						
20	1							
22		2						
24		1						
26	1							
28								
30		1	1					
32								
34								
36								
38								
40								
42	1							
44		1						
46		1						
48	1							
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+		1						

GIS Mapstand: E167-04539

Plot Number: 1

Date: 03/30/2023

UTM: 20T 456261 5041342

VT: N/A

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	N/A							
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04539

Plot Number: 2

Date: 03/30/2023

UTM: 20T 456334 5041379

VT: TH1b/TH2a

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM	yB						
2								
4								
6	1							
8								
10								
12								
14								
16								
18								
20								
22		1						
24	1							
26		1						
28								
30								
32		1						
34								
36								
38		1						
40								
42								
44		1						
46								
48		1						
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04539

Plot Number: 3

Date: 03/30/2023

UTM: 20T 456311 5041286

VT: TH7

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	yB						
2								
4								
6								
8								
10								
12								
14		2						
16								
18								
20								
22	1							
24								
26		1						
28								
30								
32								
34		1						
36								
38								
40								
42								
44								
46								
48								
50		2						
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04740

Plot Number: 1

Date: 03/30/2023

UTM: 20T 456033 5041198

VT: TH7

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	yB	sM	rM	wB				
2								
4								
6								
8								
10			1					
12								
14								
16				1				
18								
20								
22	1		1					
24		1		1				
26								
28								
30	1							
32								
34								
36								
38								
40	1							
42								
44								
46	1							
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04740

Plot Number: 2

Date: 03/30/2023

UTM: 20T 455966 5041132

VT: TH1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM	yB	bF					
2								
4								
6								
8								
10								
12			1					
14	2							
16	2							
18	3							
20								
22								
24	1							
26	1							
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56		1						
58								
60								
62								
64								
66		1						
68+								

GIS Mapstand: E167-04740

Plot Number: 3

Date: 03/30/2023

UTM: 20T 455898 5041055

VT: TH1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	yB	sM						
2								
4								
6								
8								
10								
12								
14								
16		3						
18	2							
20	1							
22	1							
24	1	1						
26		1						
28								
30		1						
32								
34								
36								
38								
40								
42	1							
44								
46								
48								
50								
52								
54								
56								
58								
60		1						
62								
64								
66								
68+								

GIS Mapstand: E167-04740

Plot Number: 4

Date: 03/30/2023

UTM: 20T 455820 5041161

VT: TH1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM							
2								
4								
6								
8								
10								
12								
14								
16	1							
18	1							
20								
22	1							
24								
26	1							
28	1							
30								
32								
34	1							
36								
38	3							
40								
42	2							
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: E167-04740

Plot Number: 5

Date: 03/30/2023

UTM: 20T 455891 5041249

VT: TH1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM	rM	yB					
2								
4								
6								
8								
10	1							
12								
14			1					
16								
18								
20								
22	1	1						
24	1							
26	2							
28	1							
30								
32								
34	1							
36								
38								
40			1					
42								
44								
46	1							
48								
50	1							
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02456

Plot Number: 1

Date: 03/31/2023

UTM: 20T 424637 5074872

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	rS	rM	eH				
2								
4								
6	5			1				
8	2	1						
10	3	1						
12	1							
14		1	1					
16	1							
18								
20								
22								
24								
26			1					
28			1					
30								
32								
34								
36								
38								
40								
42								
44		1						
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02456

Plot Number: 2

Date: 03/31/2023

UTM: 20T 424723 5074902

VT: MW4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rM	bF	wB					
2								
4								
6								
8	2							
10								
12								
14								
16								
18								
20	1							
22		1						
24		1						
26			1					
28								
30		1						
32		1						
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02456

Plot Number: 3

Date: 03/31/2023

UTM: 20T 424763 5074834

VT: MW5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	rS	wB					
2								
4								
6								
8								
10								
12								
14								
16		1						
18	2							
20			1					
22	3							
24	1							
26	1							
28								
30	1							
32								
34			1					
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02416

Plot Number: 1

Date: 03/31/2023

UTM: 20T 423899 5074956

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF	rM					
2								
4								
6								
8	1	1						
10								
12	1	1						
14								
16	2							
18	3							
20	1							
22								
24								
26	1							
28	2							
30			1					
32	2							
34								
36	2							
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02416

Plot Number: 2

Date: 03/31/2023

UTM: 20T 423828 5074893

VT: WD8

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	rM						
2								
4								
6								
8								
10								
12	1	1						
14								
16								
18		2						
20		2						
22								
24	1	1						
26	1							
28	1	1						
30	1							
32	2							
34								
36	1							
38								
40								
42	1							
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02416

Plot Number: 3

Date: 03/31/2023

UTM: 20T 423847 5074789

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	rM	bF					
2								
4								
6								
8								
10								
12			2					
14	2							
16								
18	1							
20								
22		1						
24	1							
26								
28								
30		1						
32	1							
34	1							
36	1							
38	1							
40	1							
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								

GIS Mapstand: D173-02414

Plot Number: 1

Date: 03/31/2023

UTM: 20T 423649 5075074

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rM	rS						
2								
4								
6		1						
8								
10								
12								
14		1						
16		2						
18		1						
20	1							
22								
24								
26		4						
28		1						
30		3						
32		2						
34		2						
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02414

Plot Number: 2

Date: 03/31/2023

UTM: 20T 423677 5074998

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF	rM					
2								
4	1	1						
6	3							
8	1							
10	2							
12	1	1						
14	1	1						
16	3							
18	2							
20	1		1					
22	1							
24	2							
26	1							
28								
30	2							
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02414

Plot Number: 3

Date: 03/31/2023

UTM: 20T 423728 5074932

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	rM	wP	bF				
2								
4								
6	1			1				
8								
10	1		1					
12	3			1				
14	2							
16	3							
18	1							
20	2							
22	1							
24	1							
26								
28		1						
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02414

Plot Number: 4

Date: 03/31/2023

UTM: 20T 423781 5075010

VT: WD8

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	rS	rM					
2								
4								
6								
8	2							
10	1	1						
12		1	1					
14		5						
16		2	1					
18		1						
20		2	1					
22		3						
24			1					
26		1						
28		1						
30		1	1					
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02414

Plot Number: 5

Date: 03/31/2023

UTM: 20T 423870 5025009

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF						
2	1							
4	2							
6	3	1						
8	2	1						
10	3	1						
12	2							
14								
16	1							
18								
20								
22	2							
24								
26	1							
28	1							
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02367

Plot Number: 1

Date: 05/11/2023

UTM: 20T 422376 5075503

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	rS	rM					
2								
4								
6			1					
8								
10								
12	1							
14								
16								
18			1					
20								
22								
24	1							
26		1						
28		1						
30								
32								
34		1						
36								
38								
40		2						
42								
44								
46								
48								
50								
52		1						
54								
56								
58								
60		1						
62								
64								
66								
68+								

GIS Mapstand: D173-02367

Plot Number: 2

Date: 05/11/2023

UTM: 20T 422493 5075412

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	rM						
2								
4								
6								
8								
10								
12								
14								
16	1							
18								
20								
22								
24	1							
26								
28	1							
30		2						
32	2							
34	1							
36								
38	1							
40	1							
42	1							
44	2							
46	1							
48	2							
50								
52	1							
54	1							
56								
58								
60	1							
62								
64								
66								
68+								

GIS Mapstand: D173-02367

Plot Number: 3

Date: 05/11/2023

UTM: 20T 422602 5075452

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF	wB	yB	rM			
2								
4								
6								
8								
10								
12								
14					1			
16								
18	1							
20	1							
22		1						
24								
26								
28				1				
30	2							
32								
34	5							
36	1							
38			1					
40			1					
42								
44								
46								
48	1							
50	1							
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02371

Plot Number: 1

Date: 05/11/2023

UTM: 20T 422726 5075310

VT: SH6

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF	rM					
2								
4								
6								
8	1							
10	1							
12		1						
14		1						
16		1						
18	1	1						
20	2							
22			1					
24	1							
26	2							
28	1							
30	2							
32								
34	2							
36								
38	1							
40	1							
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02371

Plot Number: 2

Date: 05/11/2023

UTM: 20T 422806 5075258

VT: SH6

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	rS						
2								
4								
6								
8								
10								
12	1							
14	2	1						
16		2						
18		1						
20		1						
22	1	1						
24		1						
26		2						
28	1	1						
30		1						
32								
34								
36								
38								
40		1						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02371

Plot Number: 3

Date: 05/11/2023

UTM: 20T 422900 5075311

VT: SH6

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	rS	rM	wP				
2								
4		1						
6		2						
8		4						
10		1	1					
12	1	1	1					
14	1							
16	3	1						
18		2						
20		3						
22			1					
24		1						
26								
28		1						
30		1	2					
32		1	1					
34		1						
36		1	1					
38								
40								
42		1						
44								
46								
48								
50								
52								
54				1				
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02372

Plot Number: 1

Date: 05/11/2023

UTM: 20T 422971 075258

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	wB	rM	rS	wP	bF			
2								
4								
6			1					
8		4	1					
10			3					
12			1					
14			2					
16	1	1	2		2			
18					1			
20			1		1			
22			1		2			
24								
26								
28								
30								
32								
34			2					
36			1					
38								
40								
42								
44								
46								
48			1					
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+				1				

GIS Mapstand: D173-02372

Plot Number: 2

Date: 05/11/2023

UTM: 20T 423044 5075289

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rM	bF	wP	rS				
2								
4		1						
6								
8				1				
10		2						
12								
14	1							
16				1				
18				1				
20				1				
22				1				
24								
26				1				
28								
30								
32				1				
34								
36	1			1				
38				2				
40				1				
42								
44								
46			1					
48								
50								
52			1					
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02372

Plot Number: 3

Date: 05/11/2023

UTM: 20T 423097 5075233

VT: WD6

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rM	bF	aS	rS				
2								
4								
6		1						
8	1	1						
10		1						
12	1	1						
14								
16				1				
18								
20		3						
22		1						
24	1							
26	1							
28			2					
30				1				
32				1				
34	2			1				
36	1							
38	1							
40	1							
42								
44								
46				1				
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02412

Plot Number: 1

Date: 05/12/2023

UTM: 20T 423354 5075162

VT: SH6

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	rM						
2								
4								
6								
8	1							
10	2							
12								
14	1							
16	2							
18								
20	3	1						
22	1							
24	1							
26								
28	3							
30	1							
32	1							
34	4							
36	1							
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02412

Plot Number: 2

Date: 05/12/2023

UTM: 20T 423355 5075072

VT: SH6

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	rM						
2								
4								
6								
8								
10								
12								
14								
16	2							
18	3							
20	2	1						
22	1							
24	2							
26	1							
28	2							
30	1							
32	1							
34								
36	1							
38	1							
40								
42	2							
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+	1							

GIS Mapstand: D173-02412

Plot Number: 3

Date: 05/12/2023

UTM: 20T 423456 5075022

VT: SH6

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	rM	rS					
2								
4								
6								
8	2							
10		3						
12	1							
14	1							
16	1		1					
18	1		1					
20								
22								
24								
26								
28			1					
30		1						
32								
34			2					
36								
38			1					
40								
42			2					
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02412

Plot Number: 4

Date: 05/12/2023

UTM: 20T 423463 5075101

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	wB	rS	bF					
2								
4								
6								
8								
10								
12			1					
14								
16								
18		1	3					
20			1					
22								
24	1	2						
26		1						
28								
30		2						
32		1						
34		1						
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: D173-02412

Plot Number: 5

Date: 05/12/2023

UTM: 20T 423571 5075106

VT: WD8

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	yB	rS	bF	rM				
2								
4								
6								
8								
10								
12								
14								
16			2					
18								
20								
22								
24				1				
26			1					
28								
30		1						
32								
34								
36								
38								
40								
42								
44	1							
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

ATTACHMENT 3
PHOTO LOG



Photo 1: A representative photo of stand E167-04760.



Photo 2: A representative photo of stand E167-04538.



Photo 3: A representative photo of stand E167-04539.



Photo 4: A representative photo of stand E167-04740.



Photo 5: A representative photo of stand D173-02456.



Photo 6: A representative photo of stand D173-02416.



Photo 7: A representative photo of stand D173-02414.



Photo 8: A representative photo of stand D173-02367.



Photo 9: A representative photo of stand D173-02371.



Photo 10: A representative photo of stand D173-02372.



Photo 11: A representative photo of stand D173-02412.

No photo available

Photo 12: A representative photo of stand E167-04511.



Photo 13: A representative photo of stand D167-00160.



Photo 14: A representative photo of stand D167-00197.