NEW GOLD RAINY RIVER MINE APPENDIX G VEGETATION PLOT WORK SUMMARY MEMO





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Memorandum

То:	Garnet Cornell – Environment Superintendent, New Gold Inc.
From:	Haley Cunningham, Junior Engineer
Cc:	Lindsay Tallon – Okane Consultants Robyn Lloyd – New Gold Inc.
Our ref:	1003-221-001
Date:	August 23, 2022
Re:	Rainy River Mine - 2022 Vegetation Trial Monitoring Summary Rev0

New Gold Inc. (New Gold) established a vegetation trial at the Rainy River Mine (RRM) to investigate the performance of locally common species with operationally feasible cover system configurations. It is anticipated that learnings from the trial will serve to inform the closure plan, and that this work will contribute to New Gold's commitment to demonstrate to government regulators and community stakeholders that vegetation can be re-established during progressive reclamation and closure. Construction at the trial was completed in September 2019, and many of the experimental tree plots were planted in late October 2019. Hydroseeding of the slopes was completed in the Fall of 2020. The purpose of this memorandum is to summarize monitoring activities completed by Okane Consultants (Okane) in 2022 and to document baseline conditions observed.

Background

The vegetation trial is designed as a randomized block study and is sited on the plateau of a dedicated trial area. Combinations of four soil treatments and nine vegetation treatments are arranged in three replicates. A destructive plot area is designated for destructive root sampling and investigation as the trial progresses. Slopes surrounding the block study have



been seeded with various methods and are used to qualitatively evaluate operational seeding techniques, vegetation establishment and erosion. Planned arrangement of the trial area is presented for reference in Figure 1 to 3.



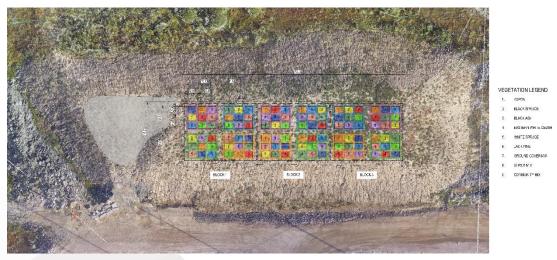


Figure 1: Arrangement of soil treatments in experimental tree plots.

Figure 2: Arrangement of vegetation treatments in experimental tree plots.





Figure 3: Arrangement of slope treatments

The general cover system configuration planned for use on the Rainy River site stockpiles consists of a 0.5 m barrier layer overlain by a 1.0 m growth medium layer, designed to limit net percolation (NP) and control oxygen (O₂) ingress to the mine rock. The enhanced cover system uses both moisture store-and-release and enhanced runoff principles to achieve reduced NP. The barrier layer within the cover system controls O₂ ingress by effectively eliminating advective gas transport.

The vegetation trial was constructed in 2019 using the same cover system design, with clay overburden used for both the barrier and growth medium layers. Four soil treatments were chosen to represent potential options for operational revegetation:

- 1) Thin topsoil a 0.15 m layer of topsoil was applied to the surface;
- 2) Tilled topsoil a 0.15 m layer of topsoil was applied to the surface and then mixed into the overburden using a skid steer tiller;
- 3) Fertilized overburden a commercial mix of fertilizer, mainly comprised of bonemeal, was applied to the overburden surface using a skid steer tiller; and
- 4) Control no amendment or modification to the overburden surface.

The species chosen for inclusion in the trial represent locally common or significant species:

- 1) Aspen;
- 2) Black spruce;



- 3) Black ash;
- 4) Eastern white cedar;
- 5) White spruce;
- 6) Jack pine;
- 7) Ground Cover Mix may include species typical for the ecosystem, such as bearberry, blueberry, ground cedar, or Labrador tea;
- 8) Shrub Mix includes available species typical of the ecosystem, such as high bush cranberry, Saskatoon berry, beaked hazelnut, alder or red osier dogwood;
- 9) Community Mix culturally significant species selected by local communities, not necessarily found in local area.

Experimental tree plot planting on the plateau commenced in late October 2019 but was not completed that year. Planting was completed in November 2020. Of note, Tobacco and Juniper species were not planted and are planned to be excluded from the trial. Commercial availability of tobacco and juniper species is limited, and it would not be feasible to include them in large-scale reclamation operations.

The slope areas surrounding the trial were hydroseeded in late September 2019 and included a test of commercially available ProGanics Biotic Soil Media from Profile Products. Other sections of the landform slopes were broadcast seeded, track packed, or left unseeded as a control. In September 2020, all slopes were treated with ProGanics Biotic Soil Media to prevent further erosion.

Construction of the overburden destructive plot was completed in autumn 2019. Some species were planted on the plot in late October 2019, and planting was completed in November 2020.

Monitoring Activities

Okane personnel visited the vegetation trial in Summer 2022 to complete an erosion survey, record growth indicator measurements for early plant growth trajectories, and complete a root investigation at the destructive plots. Haley Cunningham and Brady Hay visited the site and recorded observations on August 9, 2022.

Slope Erosion Survey

In general, significant erosion was observed on the sloped areas of the trial. Measured erosional features are included in Table 1. Erosion features were difficult to identify on most trial areas due to high vegetative coverage.



Slope Orientation	Hydroseed	Broadcast	Traffic	Control
North	S, R Some sheet erosion noticeable Uniform shallow erosion over slope (Depth < 5 cm) G Lower slope – partial slope length Depth = ~35 cm Width = 40-50 cm	R Erosion is minimal over slope (Depth < 5 cm) G Mid slope – full slope length Depth = 30 cm Width = 50 - 75cm	R Erosion is minimal, uniform over slope, and shallow rill erosion Depth < 15 cm Width = 5 – 30 cm	R, G Erosion is uniform over slope (Depth < 30 cm)
East	R Erosion is minimal, uniform over slope, and shallow rill erosion (Depth < 5 cm)	R Erosion is minimal, uniform over slope, and shallow rill erosion Depth < 10 cm Width = 5 - 15 cm	n/a	R Erosion is minimal, uniform over slope, and shallow rill erosion (Depth < 10 cm)
South	R Several along lower slope – partial slope length Depth = 15 - 20 cm Width = 10 - 40 cm G Entire slope length Depth = 37 cm Width = 60 - 65 cm	S, R Some sheet erosion noticeable Uniform shallow erosion over slope (Depth < 10 cm) G Entire slope length Depth = 35-40 cm Max width =~1.0 m	R Erosion is uniform over slope, and shallow rill erosion (Depth < 10 cm) G Lower slope – partial slope length Depth = 25 cm Width = 25 cm	R Erosion is minimal, uniform over slope, and shallow rill erosion Depth < 10 cm Width = 20 - 25 cm
West	R Shallow rill erosion at crest and toe of slope Depth < 15 cm Width = 10 - 75 cm	R Shallow rill erosion over slope (Depth < 5 cm) G Lower slope Depth = 20 - 35 cm	n/a	S, R Some sheet erosion noticeable Shallow rill erosion over slope (Depth < 10 cm) G Lower slope

Max width = ~ 80 cm

Table 1: Major erosion features on slope treatments (S-sheet, R-rill, G-gully).

Integrated Mine Waste Management and Closure Services Specialists in Geochemistry and Unsaturated Zone Hydrology Depth = 45 cmMax width = $\sim 70 \text{ cm}$





Figure 4: South Slope Rill (left) and Gully (right) erosion.



Figure 5: North Slope Rill (left) and Gully (right) erosion.





Figure 6: West Slope Rill erosion.

Annual Growth Measurements

The purpose of the late summer / early fall site visit was to collect annual growth measurements that can be used to quantify vegetation growth in the experimental tree plots at regular annual intervals. General observations were also noted along the slopes and at the Destructive Plot. Haley Cunningham and Brady Hay collected measurements from August 9, 2022.

Slopes

Vegetation ground coverage generally increased, ranging from 50% to 100% over the slopes (Table 2). Of note, all slopes were treated with ProGanics Biotic Soil Media in September 2020 to minimize further erosion. Ground coverage increased from 2021 in which most slope treatment areas had on average 50% coverage to a minimum of 75% coverage in 2022.

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Slope Orientation	Hydroseed	Broadcast	Traffic	Control
North	75% Mostly wheat grass, additional weed types, uniform coverage	50-75% Mostly wheat grass, additional weed types, uniform coverage, some areas with more sparse coverage	100% Mostly weed types, more dense and uniform coverage	100% Mostly weed types, more dense and uniform coverage
East	75-100% Mostly wheat grass, additional weed types, more dense and uniform coverage	75% Various weeds and grasses, uniform coverage	n/a	75% Mostly weed types, uniform coverage
South	50-75% Mostly wheat grass, additional weed types, uniform coverage, some areas with more sparse coverage	75% Mostly wheat grass, additional weed types, uniform coverage	75-100% Mostly weed types, some wheat grass, more dense and uniform coverage	75% Mostly wheat grass, additional weed types, uniform coverage
West	75% Mostly wheat grass, additional weed types, uniform coverage	75% Various weeds and grasses, uniform coverage	n/a	75% Various weeds and grasses, uniform coverage

Table 2: Major erosion features on slope treatments (S-sheet, R-rill, G-gully).





Figure 7: South Slope Hydroseed – August 26, 2020 (left), August 18, 2021 (middle), and August 9, 2022 (right).



Figure 8: East Slope - August 26, 2020 (left), August 18, 2021 (middle), and August 9, 2022 (right).

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Figure 9: North Slope Control - August 26, 2020 (left), August 18, 2021 (middle), and August 9, 2022 (right).



Figure 10: West Slope Broadcast - August 26, 2020 (left), August 18, 2021 (middle), and August 9, 2022 (right).



Plateau

Jack pine plots were not planted at the time of the field visit. It appears that in the Block 3 tilled topsoil treatment, black spruce was planted in the sub-plot designated for white spruce. The Community Mix plots were not planted, except for some grass species in select plots. Of note, the Ground Cover Mix plots appear to have been planted with a tree species, and two shrub species, not typical of ground cover.

Overall, the general health of the planted vegetation appeared to be struggling compared to previous years. Some general observations for the various species include:

- Aspen and Black Ash generally appeared to be doing better for the fertilized overburden and control soil treatments.
- Black Spruce generally appeared to be doing better for the fertilized overburden and control soil treatments.
- White Spruce appeared to be struggling and/or dead for all four soil treatments.
- Shrub mix generally appeared to be struggling for all soil treatments however new bottom growth was occurring on some of the shrubs.

A general health check was performed during the survey. Vegetation was rated on a qualitative 5-point scale to gauge if the tree/ shrub had established well:

- Healthy (H) the specimen generally appeared to be in good health;
- Healthy / Struggling (H/S) the specimen was not in prime condition, showing some sign(s) of poor health;
- Struggling (S) the specimen was in poor condition, with the majority of the plant showing signs of wilting, lost leaves, or discolouration;
- Struggling / Dead (S/D) the specimen was in very poor health or unclear if the plant had died; and
- Dead (D) the specimen was clearly dead or had been completely uprooted.

Table 3 provides a summary of gauged health observed during the experimental tree plot survey. Generally, some vegetation loss and health decline were observed between August 2021 and August 2022. Due to the dense vegetation establishment on some of the plots, mainly the thin and tilled soil treatment plots, some planted vegetation was difficult to identify such as those in the ground, shrub, and community mix plots.



Table 3: General health of planted trees and shrubs (H-healthy, S-struggling, D-dead).

	Soil		Block 1			Block 2			Block 3	
Species	Treatment	2020	2021	2022	2020	2021	2022	2020	2021	2022
	Thin Topsoil	9H, 1D	6H, 3S, 1D	5H, 1H/S, 1S, 3D	6H, 1H/S, 3S/D	6H, 4D	7H, 3D	10H, 1D	5H/S, 3S, 2D	8H, 2D
Aspen	Tilled Topsoil	10H	5H, 1S, 4D	2H/S, 4S, 3D	9H, 1S/D	10H	5H, 2S, 3D	9H, 1S	10H	8H, 2D
	Fertilized Overburden	9H, 1D	9H, 1D	9H, 1D**	10H	10H	9H, 1D	10H, 1D	10H	10H
	Control	9H, 1D	9H, 1D	9H, 1D	10H	10H	10H/S	10H	10H	9H, 1S/D
	Thin Topsoil	10H	2H, 3S, 5D	2H, 8D	10H	3H, 3S, 4D	1H/S, 2S, 7D	10H*	10D	10D
Black	Tilled Topsoil	9H, 1D	4H/S, 1S, 5D	3H, 7D	3H, 6S, 1D	10D	10D	10H	1S, 9D	10D
Spruce	Fertilized Overburden	10H	10H	10H	10H	10H	10H	9H, 1H/S	10D	10D
	Control	10H	10H	10H	10H	10H	8H, 2S	10H	6H, 2S, 2D	8H, 1S, 1D
	Thin Topsoil	10H	105	6H, 4H/S	9H, 1H/S	10H	4H, 1H/S, 2S, 3D	9H, 1D	9S, 1D	8H/S, 2D
Black Ash	Tilled Topsoil	10H	95	4S, 1S/D, 5D	9H, 1D	9H/S, 1D	3S, 7D	10H	4H, 6S	8H, 2D
	Fertilized Overburden	10H	10H	10H	10H	10H	10H	10H	10H	10H
	Control	10H	10H	10H	10H	10H	10H	9H, 1H/S	9H, 1S	9H, 1S
	Thin Topsoil	10S	10S/D	4SD, 6D	10H	10S	4S, 6D	11H/S	11S/D	4S, 7D
Eastern	Tilled Topsoil	10S	10S/D	10S/D	10H	10S/D	3S, 7D	10S/D	10S	3S, 7D
White Cedar	Fertilized Overburden	10H	10H/S	10H	10H	10H/S	10H/S	11H/S	10S, 1D	5S, 6D
	Control	10H/S	105	10S	10H	10H/S	10S	11H/S	115	118/D
	Thin Topsoil	-	10D	10D	-	10D	10D	-	1H, 2S, 7D	1S, 9D
	Tilled Topsoil	-	10D	10D	-	10D	1S, 9D	-	10D	10D
White Spruce	Fertilized Overburden	-	3S, 7D	2H, 3S, 1S/D, 4D	-	105	1S, 9D	-	1S, 9D	10D
	Control	-	1S, 9S/D	1S, 9D	-	3H, 3S, 4D	7S, 3D	-	3S, 7D	2S, 8D



Species	Soil		Block 1			Block 2			Block 3	
Species	Treatment	2020	2021	2022	2020	2021	2022	2020	2021	2022
	Thin Topsoil	-	-	-	-	-	-	-	-	-
	Tilled Topsoil	-	-	-	-	-	-	-	-	-
Jack Pine	Fertilized Overburden	-	-	-	-	-	-	-	-	-
	Control	-	-	-	-	-	-	-	-	-
	Thin Topsoil	6H	4S, 2D	1H, 2 S/D, 2D	6H	65	1S, 5D	6H	55	1H/S, 1S, 4D
Ground	4S, Tilled Topsoil 1S/D 1D		1S, 3S/D, 2D	5D	5H, 1D	65	6D	6H/S	3S, 3D	1S/D, 5D
Ground Cover Mix	Fertilized Overburden	6Н	6S	2H/S, 1S/D, 3D	4H, 1H/S	6H/S	2H/S, 2S, 2D	6Н	65	2H, 2S/D, 2D
	Control	4H, 2S	6S	2H, 2S/D, 2D	5H, 1H/S	65	1S, 1S/D, 4D	6Н	6S	2S, 2S/D, 2D
	Thin Topsoil	4H	2S/D, 2D	2S/D, 2D	4H	1S, 3D	4D	4H	2S, 2D	2S, 2S/D
	Tilled Topsoil	4H	4S	4D	4H	4S	4D	Н	3S, 1D	1H, 3D
Shrub Mix	Fertilized Overburden	4H	4H	4H/S	4H	4H	1H, 2H/S, 1S	4H	1H, 2S, 1D	2H, 2D
	Control	4H	4H	4H/S	4H	4H	4S	4H	1H, 3S	4D
	Thin Topsoil	-	-	-	-	-	-	3H	ЗH	_
Community	Tilled Topsoil	-	-	-		ЗH	-		3H	-
Community Mix	Fertilized Overburden	2H	2H	***	-	-			ЗH	***
	Control	ЗH	ЗH	***		-		ЗH	3H	***

* Planted in white spruce design plot;

** Dead aspen removed from plot in 2022.

*** Difficult to identify planted species due to weed type vegetation growing in plot.





Figure 11: Block 1 – Fertilized Overburden - Black Spruce (left) and White Spruce (right).



Figure 12: Block 3 – Fertilized Overburden – Aspen (left) and Thin Topsoil – Aspen (right).

During the 2022 survey, three trees were randomly selected in each plot to measure the growth indicators. Several growth indicator measurements were recorded during the autumn survey for annual growth comparisons:

- Root Collar the diameter of the tree base at the widest part of the root collar (where the root joins the stem), or just above the ground surface, whichever is higher;
- Total Height the distance between the root collar and the base of the terminal bud (of the tallest stem). For leaning trees, this distance was measured along the slope of the stem;



- Diameter at Breast Height (DBH) the diameter of the tree at 1.3 m above the base; and
- Crown Diameter the average horizontal width of the crown.

A summary of growth indicator measurements by plot are provided in Appendix A. Average indicator measurements by species are included in Table 4.

Tree Species	Root Collar (mm)	Crown Diameter (cm)		Height (cm)			DBH (mm)					
	20	020	2020	2021	2022	2020	2021	2022				
Aspen	21.5 +/- 2.0	24.6 +/- 258.6 +/- 254.9 +/- 266.3 10.2 26 33.2 +/- 34.7		266.3 +/- 34.7	14 +/- 1.6	15.2 +/- 1.1	16.1 +/- 1.9					
Black spruce	22.5 +/- 3.1	26.7 +/- 7.5	99.5 +/- 17.8	107.8 +/- 16.8	117.0 +/- 12.3		n/a					
Black ash	21.6 +/- 2.4	29.9 +/- 9.0	219.6 +/- 30.4	213.4 +/- 31.3	226.4 +/- 28.7	10.8 +/- 2.2	11.3 +/- 2.4	11.1 +/- 2.4				
Eastern white cedar	22.0 +/- 4.7	16.3 +/- 6.1	99.4 +/- 96.5 +/- 100.2 10.8 16.5 +/- 14.5		100.2 +/- 14.5		n/a					
White spruce	Not planted Not 68.1 +/- 69.4 +/- planted 16.7 19.9						n,	/a				
Jack pine				Not plar	nted							

Table 4: Mean tree growth indicator measurements +/- standard deviation.

Measurements expressed as mean +/- SD

Ground cover was estimated at each plot during the surveys. During the 2022 autumn survey, ground cover increased in all plots, and most notably in some of the control and fertilized overburden plots (Table 5). Figures 13 to 16 compare plots from each soil treatment group as observed during the 2020, 2021 and 2022 surveys.

Soil		Block 1			Block 2			Block 3		Average			
Treatment	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022	
Thin Topsoil	67	75	93	75	75	95	75	75	100	72	75	96	
Tilled Topsoil	75	75	95	75	75	97	64	75	100	71	75	97	
Fertilized Overburden	17	19	30	17	19	33	25	19	65	19	19	43	
Control	19	19	32	17	19	25	22	19	38	19	19	32	





Figure 13: Block 2 – Thin Topsoil – Eastern white cedar plot as observed on August 28, 2020, (left), August 17, 2021 (middle), and August 9, 2022.



Figure 14: Block 1 – Tilled Topsoil – Black Spruce plot as observed on August 28, 2020, (left), August 17, 2021 (middle), and August 9, 2022.





Figure 15: Block 2 – Fertilized Overburden – Black ash plot as observed on August 28, 2020, (left), August 17, 2021 (middle), and August 9, 2022.



Figure 16: Block 3 – Control – Aspen plot as observed on August 28, 2020, (left), August 17, 2021 (middle), and August 9, 2022.



Destructive Plot

Minimal erosion was observed in the destructive plot, except for some down-slope erosion on the north edge of the plot. Vegetation was generally noted to have established well, and ground cover has increased since the 2021 survey. Estimated percent ground cover during the annual survey in autumn was approximately 75% for 2020 and 2021 but has increase to 90% for 2022. Only general observations of poor health were noted during the autumn visit; Table 6 includes a summary of general health, extrapolating the number of healthy trees from the totals recorded.

<u>Cracica</u>		Destructive Plot	
Species	2020	2021	2022
Aspen	8 H, 4 S	7 H, 2 S, 3 D	4 H, 2 S, 4 D
Black spruce	14 H	5 H, 3 H/S, 6 D	4 H, 3 S, 4 D
Black ash	21 H, 1 S	1 H/S, 13 S, 1 S/D, 6 D	5 H, 2 H/S, 2 S, 12 D
Eastern white cedar	11 S	8 S/D	1 S/D, 5 D
White spruce	-	6 D	6 D
Jack pine	10 H, 1 S	1 S/D, 10 D	1 S/D, 8 D
Shrub (1)	8 H	8 S/D	2 S, 9 D
Shrub (2)	20 H		

Table 6: General health of trees and shrubs planted in the Destructive Plot (H-healthy,
S-struggling, D-dead).

Only struggling or dead trees were noted in the autumn survey **(bolded)**, all other specimens were labelled as healthy.

Shrub (1) assumed to be raspberry bushes; Shrub (2) unknown and not recorded in 2021.



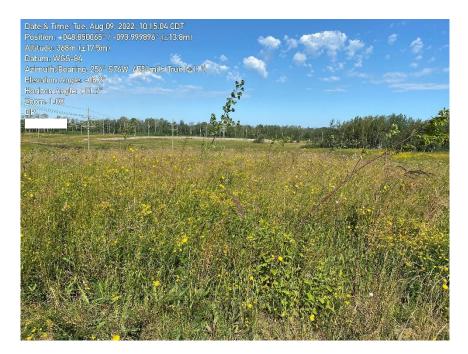


Figure 17: Destructive plot ground coverage.

In addition, a root investigation was complete to investigate root depth and spread (Table 7). Rooting depth did not extend into the underlying till and remained within the overlying topsoil. Root spread appeared to be minimal, it was observed that the root spread did not appear to greatly exceed that in which it was likely originally planted.

Species	Root Depth	Root Spread
Aspen	24 cm	11 – 14 cm
Black ash	23 cm	13 – 17 cm
Black ash (small)	16 cm	20 – 26 cm
Black spruce	25 cm	30 – 37 cm

Table 7: Destructive Plot root investigation.

Closure

We trust information provided in this memorandum is satisfactory for your requirements. Please do not hesitate to contact me at (306) 850-6140 or hcunningham@okc-sk.com should you have any questions or comments. Appendix A

Plot Growth Indicator Measurements & General Health

Table 8: Plotgrowhindicatormeasurements and general health.

				Total	height	DE	3H								
Block	Soil Treatment	Vegetation Treatment	Date	Mean	+/- SD	Mean	+/- SD	-	н	ealth Chec	k		Total Count	Ground Cover	
			-	(c	m)	(m		н	H/S	S	S/D	D	(# trees or shrubs)	(%)	Comment
Block 1	Thin Topsoil	Aspen	8/9/2022	2738	252	15,3	1.9	5	1	1		3	10	95%	
Block 1	Thin Topsoil	Backspruce	8/9/2022	94.9	50	n	<i>l</i> a	10					10	90%	
Block 1	Thin Topsoil	Blackash	8/9/2022	237.1	17.9	124	0.9	6	4				10	95%	
Block 1	Thin Topsoil	Easternwhiteceabr	8/9/2022	101.2	10.9	ņ	<i>l</i> a				4	6	10	95%	
Block 1	Thin Topsoil	White spruce**	8/9/2022									10	10	95%	
Block 1	Thin Topsoil	Jackpine	8/9/2022					Notp	banted					90%	
Block 1	Thin Topsoil	GrandCoverMix	8/9/2022 8/9/2022	295.0	50	14,5	215	2			2	2	2 4	90%	Tirees Shildos
Block 1	Thin Topsoil	ShubMix	8/9/2022	90,4	45	ņ	<i>l</i> a				2	2	4	95%	
Block 1	Thin Topsoil	Community/Vix	8/9/2022											95%	
Block 1	TiledTopsoi	Aspen	8/9/2022	2760	20.1	15.0	1D		2	4		3	9	95%	
Block 1	TiledTqpxoi	Blackspruce	8/9/2022	1208	65	ņ	<i>l</i> a	3				7	10	95%	
Block 1	TiledTopsoi	Blackash	8/9/2022	231.6	7.4	9.4	17		4	1		5	10	95%	
Block 1	TiledTopsoi	Easternwhiteceabr	8/9/2022	%8	160	ŋ	<i>l</i> a				10		10	95%	
Block 1	TiledTopsoi	White spruce**	8/9/2022									10	10	95%	
Block 1	TiledTopsoi	Jackpine	8/9/2022					Notp	banted			r.		95%	
Block 1	TillectTopsoil	GaundCoverMix**	8/9/2022 8/9/2022									1	1 4	95%	Træs Shubs
Block 1	TiledTqpxoi	ShubMix**	8/9/2022									4	4	95%	
Block 1	TiledTopsoil	Community/Vix	8/9/2022											95%	
Block 1	FertilizedOverburden	Aspen	8/9/2022	2752	293	168		9				1	10	25%	Deadheeremovedin 2021
Block 1	FertilizedOverburden	Blackspruce	8/9/2022	114.1	158		<i>l</i> a	10					10	35%	Sometreeshavepinecares
Block 1	FertilizedOverburden	Blackash	8/9/2022	226.6	87	123		10					10	25%	
Block 1	FertilizedOverburden	Easternwhiteceabr	8/9/2022	97.1	52		<i>l</i> a	10					10	25%	
Block 1	FertilizedOverburden	Whitespruce	8/9/2022	67.7	65	ņ	/a	2		3	1	4	10	25%	
Block 1	FertilizedOverburden	Jackpine	8/9/2022				-	Notp	banted					25%	
Block 1	FertilizedOverburden	GaundCoverMix	8/9/2022	254.0	-	15.4	-		1			1	2	25%	Trees
			8/9/2022	550	-	n,	<u>/a</u>		1		1	2	4		Shubs
	FertilizedOverburden	ShubMix	8/9/2022	935	235	n	<u>/a</u>		4				4	25%	
Block 1	FertilizedOverburden	CommunityMix	8/9/2022				A -					-		60%	
Block 1	Cantrol	Aspen	8/9/2022	277.9	25.4	19,0	21	9				1	10	25%	
Block 1	Cantrol	Backspruce	8/9/2022	1250	110	ņ		10					10	25%	Sometreeshavepinecares
Block2	Cantrol	Blackash	8/9/2022	233.9	170	138	1.5	10					10	25%	
Block3	Cantrol	Easternwhiteceabr	8/9/2022	1057	22	ŋ				10			10	25%	
Block4	Cantrol	Whitespruce	8/9/2022	650	-	ņ	/a			1		9	10	50%	
Block 1	Cantrol	Jackpine	8/9/2022				1		bonted				1	55%	
Block 1	Cantrol	GandCoverMix	8/9/2022	270,0	40	182		2					2	30%	Trees
			8/9/2022							2		2	4		Shubs
Block 1	Cantrol	ShubMix	8/9/2022	117.9	4,1					2		2	4	25%	



Block 1	Cantrol	CommunityMix	8/9/2022									1		25%	
Block2	Thin Tapsoil	Aspen	8/9/2022	2853	93	16.7	0.9	7				3	10	95%	
Block2	Thin Topsoil	Blackspruce	8/9/2022	115.6	3.4	r	γa		1	2		7	10	95%	
Block2	Thin Topsoil	Blackash	8/9/2022	2177	21.0	93	26	4	1	2		3	10	95%	
Block2	Thin Topsoil	Easternwhiteceabr	8/9/2022	%7	143	r	γa			4		6	10	95%	
Block2	Thin Topsoil	White spruce**	8/9/2022									10	10	95%	
Block2	Thin Topsoil	Jackpine	8/9/2022		ļ	I	I	Note	bonted	l I	I	ļ		95%	
Block2	Thin Topsoi	GaundCoverMix	8/9/2022 8/9/2022	2020		11.6				1		1 4	2	95%	Tirees Shildos
Block2	Thin Topsoil	Shub/Vix**	8/9/2022									4	4	95%	
Block2	ThinTopsol	Community/Vix	8/9/2022									•	· ·	95%	
Block2		Apen	8/9/2022	2895	165	14,7	12	5		2		3	10	100%	
Book2	TilledTopsoi	Backspuce**	8/9/2022	2010	102	1 12		0		<u> </u>		10	10	100%	
Block2	TilledTopsoi	Backash	8/9/2022	2073	37	83	21			3		7	10	95%	
Block2	TilledTopsoi	Easternwhiteceabr	8/9/2022	75.1	237		γ <u>α</u>			3		7	10	95%	
Block2	TiledTopsol	White spruce**	8/9/2022	70.1	<u> </u>	1				0		10	10	95%	
Block2	TiledTopsoi	Jackpine	8/9/2022					Notr	banted			ю	10	100%	
		•	8/9/2022									2	2		Trees
Block2	TillectTopsoi	GandCoverMix**	8/9/2022									4	4	95%	Shubs
Block2	TilecTopsoi	ShubMix**	8/9/2022									4	4	95%	
Block2	TiledTopsoi	CommunityMix	8/9/2022											95%	
Block2	FertilizedOverburden	Apen	8/9/2022	187.4	70	152	0.8	9				1	10	65%	
Block2	FertilizedOverburden	Blackspruce	8/9/2022	121.1	10,5		γa	10					10	35%	Sametreeshavepinecares
	FertilizedOverburden	Blackash	8/9/2022	243.4	5.1	11.5	12	10					10	25%	
Block2	FertilizedOverburden	Easternwhiteceabr	8/9/2022	110.1	48		ν/a		10	_			10	25%	
Block2	FertilizedOverburden	Whitespruce	8/9/2022	63.0		r	γa			1		9	10	25%	
Block2	FertilizedOverburden	Jackpine	8/9/2022				-	Notp	banted					50%	
Block2	FertilizedOverburden	GaundCoverMix	8/9/2022	243.0		142				1		1	2	25%	Trees
			8/9/2022	90,4		r	γa		2	1		1	4		Shubs
Block2	FertilizedOverburden	ShubMix	8/9/2022	998	92			1	2	1			4	25%	
Block2	FertilizedOverburden	CommunityMix	8/9/2022											25%	
Block2	Cantrol	Aspen	8/9/2022	277.4	180	16.5	0.5	-	10	-			10	25%	
Block2	Cantrol	Blackspruce	8/9/2022	117.6	5.4		γa	8		2			10	25%	Sometieeshavepinecares
Block2	Cantrol	Blackash	8/9/2022	205.9	40.9	9,5	17	10					10	25%	
Block2	Cantrol	Easternwhiteceabr	8/9/2022	104.7	127		γa			10			10	25%	
Block2	Cantrol	Whitespruce	8/9/2022	628	107	r	γa			7		3	10	25%	
Block2	Cantrol	Jackpine	8/9/2022					Notp	banted					25%	
Bbck2	Cantrol	GaundCoverMix	8/9/2022 8/9/2022	500		r	γa			1	1	2 2	2 4	25%	Tiæ-somestiæshovebæries Shilds
Block2	Cantrol	ShubMix	8/9/2022	868	35.6		γa			4			4	25%	
Block2	Cantrol	Community/Vix	8/9/2022							-				25%	
Block3	Thin Topsol	Aspen	8/9/2022	239.4	163	182	12	8				2	10	-, -	
Block3	ThinTopsoil	Blackspruce**	8/9/2022									10	10		Actualywhitespruce
		•		214.6	502	120	1.6		8						
Block3	Thin Topsol	Backash	8/9/2022	214,6	502	120	1.6		8			2	10		



Bock3 Thricad Whileprice 89/002 No I 9 10 Bock3 Thricad GurcCoer/kr 89/002 2800 20 167 10 1 1 - 2 4 4 Bock3 Thricad StrbMk 89/002 200 20 167 10 1 1 - 2 4	Block3	Thin Topsoil	Easternwhiteceabr	8/9/2022	932	7.4	r	γa			4		7	11
Back3 Trintpaci GeurdCoenvk. 89/202 99/202 200 200 167 10 1 1 2 4 4 Back3 Trintpaci Snubvik 89/202 600 n/a 2 2 4 4 Back3 Trintpaci Community/k 89/202 600 n/a 2 2 4 4 Back3 Tintpaci Community/k 89/202 2800 164 8 2 10 Back3 TitedTopaci Backspue# 89/202 2255 11/4 8 2 10 Back3 TitedTopaci Edickan 89/202 2275 11/4 8 2 10 Back3 TitedTopaci Edickan 89/202 29/202 11/7 n/a 3 7 10 Back3 TitedTopaci GoundCoenv/k 89/202 29/202 11/7 1 1 2 4 4 4 Back3 TitedTopaci GoundC	Block3	Thin Topsoil	Whitespruce	8/9/2022	1120		r	v/a			1		9	10
Box3 Immodul Counces/set Set/3 Set/3 Set/3 <thset 3<="" th=""> Set/3</thset>	Block3	Thin Topsoil	Jackpine	8/9/2022		1	•		Note	banted	1			
Back3 Trin Topol Shub/k 89/122 600 no 2 2 4 4 Back3 Trin Topol Commini/v/k 89/122 600 no 2 2 4 4 Back3 Title Topol Appen 89/122 2860 164 8 2 0 Back3 Title Topol Backspute# 89/122 2860 164 8 2 0 Back3 Title Topol Backspute# 89/122 1177 n/d 8 2 10	Photo 3	Thin Tormi	Cam Cart liv	8/9/2022	2600	20	16.7	1.0		1	1			2
Bock3 Thinloppel Communit/Weik 89/202 Image of the second	DUKS		GUIDUNAIVIK										4	4
Bock3 Thinloppel Communit/Mark 89/202	Block3	Thin Topsoil	ShubMix	8/9/2022	600		r	v/a			2	2		4
Back3 TileoTopol Backspuce** 89/202 225 11/4 8 2 10 Back3 TileoTopol Estern/Tileocol Backsch 89/202 225 11/4 8 2 10 Back3 TileoTopol Estern/Tileocol Backsch 89/202 no 3 7 10 Back3 TileoTopol Estern/Tileocol* 89/202 no 10 10 10 Back3 TileoTopol CourdCoer/K 89/202 270 117 no 1 1 2 Back3 TileoTopol GourdCoer/K 89/202 270 117 1 1 2 0 1 3 4 Back3 TileoTopol GourdCoer/K 89/202 270 112 160 10 0 10 10 10 10 Back3 FerifizeOO-ebucha Backson 89/202 2644 5 6 11 10 10 10 10			CommunityMix	8/9/2022										
Back3 TilledTopad Backash 89/202 225 114 8 2 10 Back3 TilledTopad Externwitheedar 89/202 117 nd 3 7 10 Back3 TilledTopad Writeguce** 89/202 117 nd 3 7 10 Back3 TilledTopad Jackapine 89/202 270 117 nd 1 1 2 10					2880		16.4		8				2	
Bod3 Tilleclipsol Esternwhiecechr 89/202 11/7 n/a 3 7 10 Bod3 Tilleclipsol Uotkpine 89/202 Notponted 10 10 10 Bod3 Tilleclipsol Uotkpine 89/202 23/0 11/7 n/a 1 1 2 Bod3 Tilleclipsol GoundCoent/kk 89/202 23/0 11/7 n/a 1 4 4 Bod3 Tilleclipsol GoundCoent/kk 89/202 11/40 n/a 1 3 4 Bod3 Tilleclipsol Commut/k/k 89/202 11/40 n/a 1 3 4 Bod3 FertilizedOvebucen Agen 89/202 26/88 112 160 10 0 0 10 Bod3 FertilizedOvebucen Bods2uce** 89/202 26/4 57 11/4 18 10 10 10 Bod3 FertilizedOvebucen Bods2uce** 8			Blackspruce**	8/9/2022									10	
Back3 TileaTapail Writespuce** 89/202 Notphaned 10 10 Back3 TileaTapail Jackorie 89/202 2370 117 1 1 2 Back3 TileaTapail GaundSovervik 89/202 2370 117 1 1 2 Back3 TileaTapail GaundSovervik 89/202 1140 ndc 1 3 4 Back3 TileaTapail GaundSovervik 89/202 1140 ndc 1 3 4 Back3 TeleTapail GaundSovervik 89/202 1140 ndc 10 10 10 10 Back3 TertilizedOverbuchn Backspuce** 89/202 244 57 114 18 10		TiledTopsoi	Blackash	8/9/2022			11,4		8				2	
Block3 TillecTipsol Jokopie 89/202 Notpented Block3 TillecTipsol GoundCoverVik 89/202 2370 117 1 1 2 Block3 TillecTipsol SnubVik 89/202 1140 n/a 1 4 4 Block3 TillecTipsol SnubVik 89/202 1140 n/a 1 4 4 Block3 TertilizedOvebuden Appan 89/202 2838 112 160 10 1 4 4 Block3 TertilizedOvebuden Appan 89/202 2838 112 160 10 10 10 10 Block3 TertilizedOvebuden Blocksth 89/202 2544 57 1114 18 10 10 10 10 10 Block3 TertilizedOvebuden Edstant/Tilecedor 89/202 5 143 04 2 2 2 4 Block3 TertilizedOvebuden GoundCoverVik		TilectTopsoi		8/9/2022	1177		r	v/a			3		7	
Bock3 TiledTopsol GourdCover/vic 89/2022 89/2022 2370 117 1 1 2 Bock3 TiledTopsol ShubVic 89/2022 2370 117 1 1 1 2 Bock3 TiledTopsol ShubVic 89/2022 1140 n/d 1 3 4 Bock3 TelledTopsol Comunity/vic 89/2022 2638 112 160 10 10 Bock3 FertilizedOvebuchen Apen 89/2022 2644 57 11.4 18 10 10 10 Bock3 FertilizedOvebuchen Bockoth 89/2022 2644 57 11.4 18 10		TiledTopsoi	White spruce**	8/9/2022									10	10
Bdds3 TilledTopol Gdd Oubelrikk 89/202 Image of the second	Block3	TilectTopsoi	Jackpine						Notp	banted				
Bock3 TitlecTopol Snubvik 89/202 140 no 1 4 4 Bock3 TitlecTopol Snubvik 89/202 140 no 1 3 4 Bock3 TitlecTopol Commit/Vik 89/202 238 112 160 10 0 1 10 10 Bock3 FertilizedOvebuch Appn 89/202 2588 112 160 10 10 10 10 Bock3 FertilizedOvebuch Bock50 89/202 2544 57 114 18 10 10 10 Bock3 FertilizedOvebuch Bock3 FertilizedOvebuch Whilespace** 89/202 998 118 nda 5 6 11 Bock3 FertilizedOvebuch Milespace** 89/202 2565 15 143 04 2 2 2 4 Bock3 FertilizedOvebuch Shuckvik 89/202 154 35 nda <td< td=""><td>Blocks</td><td rowspan="2">TilledTqpxoil</td><td rowspan="2">GaudCoverMix</td><td>8/9/2022</td><td>237.0</td><td></td><td>117</td><td></td><td></td><td></td><td>1</td><td></td><td>1</td><td>2</td></td<>	Blocks	TilledTqpxoil	GaudCoverMix	8/9/2022	237.0		117				1		1	2
Bock3 Tilecticsal Commit/Wk 89/202 2638 112 160 10 10 10 10 Bock3 FertilizedOvebucten Bockspuce** 89/202 2638 112 160 10				8/9/2022										4
Block3 FerfilizedOvebucen Appen 89/202 2638 112 160 10 10 10 10 10 Block3 FerfilizedOvebucen Blockspuce** 89/202 2544 57 114 18 10 10 10 10 Block3 FerfilizedOvebucen Blockson 89/202 29/8 118 n/a 5 6 11 Block3 FerfilizedOvebucen Blockson 89/202 998 118 n/a 5 6 11 Block3 FerfilizedOvebucen Mitespuce** 89/202 998 113 0.4 2 10 10 10 Block3 FerfilizedOvebucen Ustype 89/202 2855 15 143 0.4 2 2 2 4 Block3 FerfilizedOvebucen Stuckype 89/202 1154 35 n/a 2 2 4 Block3 Contol Appen 89/202 27/42 312			ShubMix		114,0		r	v/a	1				3	4
Block3 FertilizedOvelouten Blockspuce*** 89/202 2544 57 114 18 10 10 10 Block3 FertilizedOvelouten Blockspin 89/202 2544 57 114 18 10 10 10 10 Block3 FertilizedOvelouten Externwhitecedor 89/202 998 118 n/c 5 6 11 Block3 FertilizedOvelouten Undeprive 89/202 998 118 n/c 5 6 11 Block3 FertilizedOvelouten Undeprive 89/202 2 5 15 143 0.4 2 2 4 Block3 FertilizedOvelouten OrundOver/Mk 89/2022 255 15 143 0.4 2 2 4 Block3 FertilizedOvelouten OrundOver/Mk 89/2022 1154 35 n/c 2 2 4 Block3 Control Agaen 89/2022 1144 17<			CommunityMix											
Bock3 FertilizedOverburden Blockath 89/202 254.4 57 11.4 18 10 Image: Marcon Stress of Str					263.8	112	16.0	1.0	10					
Back3 FertilizedOvebuden Easternwhitecebr 89/202 998 118 n/a 5 6 11 Back3 FertilizedOvebuden Whitespuce** 89/202 2 10 10 10 Back3 FertilizedOvebuden Jackpine 89/202 2 Notponted 10 10 10 Back3 FertilizedOvebuden Jackpine 89/202 2565 15 143 0.4 2 2 2 4 Back3 FertilizedOvebuden Studyine 89/2022 1154 35 n/a 2 2 2 4 Back3 FertilizedOvebuden Studyink 89/2022 1154 35 n/a 2 2 4 Back3 Control Agen 89/2022 2742 312 140 17 9 1 10 Back3 Control Agen 89/2022 2146 483 121 07 9 1 10 Back													10	
Bock3 FertilizedOverbuicten Writespruce** 89/202 No No 10 10 Bock3 FertilizedOverbuicten Jackpine 89/202 2565 15 143 0.4 2 2 2 4 Bock3 FertilizedOverbuicten GroundCover/Vix 89/202 2565 15 143 0.4 2 2 2 4 Bock3 FertilizedOverbuicten Studovik 89/202 115.4 3.5 n/d 2 2 2 4 Bock3 FertilizedOverbuicten Studovik 89/202 115.4 3.5 n/d 2 2 2 4 Bock3 Control Ageen 89/202 274.2 31.2 14.0 1.7 9 1 10 0 Bock3 Control Ageen 89/202 214.6 48.3 12.1 0.7 9 1 10 10 Bock3 Control Bockosh 89/202 108 <							11.4	18	10					10
Block3 FertilizedOveburden Jackpine 89/202 Status Notplanted Block3 FertilizedOveburden GoundCovertvix 89/202 2565 15 143 0.4 2 2 2 4 Block3 FertilizedOveburden Smbt/vix 89/202 115.4 3.5 n/a 2 2 4 Block3 FertilizedOveburden Smbt/vix 89/202 115.4 3.5 n/a 2 2 4 Block3 FertilizedOveburden Community/vix 89/202 115.4 3.5 n/a 2 2 4 Block3 Control Aspen 89/202 2742 312 140 17 9 1 10 Block3 Control Blockspruce 89/202 2742 312 140 17 9 1 10 Block3 Control Blockspruce 89/202 214.6 48.3 121 07 9 1 10 10					998	118	r	v/a			5		-	
Block3 FertilizedOverbucten GroundCoverMix 89/202 2565 15 14.3 0.4 2 2 2 4 Block3 FertilizedOverbucten SnubMix 89/202 115.4 35 n/a 2 2 2 4 Block3 FertilizedOverbucten SnubMix 89/202 115.4 35 n/a 2 2 4 Block3 FertilizedOverbucten Community/Mix 89/202 2742 312 140 17 9 1 10 Block3 Control Aspen 89/202 214.6 48.3 121 07 9 1 10 Block3 Control Blockcsh 89/2022 214.6 48.3 121 07 9 1 10 Block3 Control Blockcsh 89/2022 214.6 48.3 121 07 9 1 10 Block3 Control Esternwhitecedbr 89/2022 577 95			•										10	10
Bock3 FerlinedOvelocen Gourdovelocen 89/202 Image: style st	Block3	FertilizedOverburden	Jackpine							banted				
Image: Control Structure	Bhole3				256.5	1.5	14,3	0.4	2					
Block3 FertilizedOverbuiden Community/Vik 89/2022 2742 312 140 17 9 1 10 Block3 Control Aspen 8/9/2022 2742 312 140 17 9 1 10 Block3 Control Blockspruce 8/9/2022 1184 117 n/c 8 1 1 10 Block3 Control Blockspruce 8/9/2022 2146 483 121 07 9 1 10 10 Block3 Control Blockosh 8/9/2022 2146 483 121 07 9 1 10 10 Block3 Control Blockosh 8/9/2022 2146 483 121 07 9 1 10 10 Block3 Control Edsternwhitecedbr 8/9/2022 1080 77 n/a 2 8 10 Block3 Control Jcokpine 8/9/2022 577												2		
Black3 Cantral Appen 89/2022 2742 312 140 17 9 1 10 Black3 Cantral Blackspuce 89/2022 1184 117 n/a 8 1 1 10 Black3 Cantral Blackspuce 89/2022 1184 117 n/a 8 1 1 10 Black3 Cantral Blackspuce 89/2022 2146 483 121 07 9 1 10 10 Black3 Cantral Blackosh 89/2022 2146 483 121 07 9 1 10 10 Black3 Cantral Easternwhiteceabr 89/2022 1080 77 n/a 11 11 11 11 Black3 Cantral Whitespruce 89/2022 577 95 n/a 2 8 10 Black3 Cantral Jackpine 89/2022 200 127 0.6 2					115,4	3.5	r	<u>v/a</u>	2				2	4
Block3 Control Blockspuce 89/2022 1184 117 n/a 8 1 1 10 Block3 Control Blockosh 8/9/2022 214.6 48.3 121 07 9 1 0 10 Block3 Control Blockosh 8/9/2022 214.6 48.3 121 07 9 1 0 10 Block3 Control Easternwhitecedbr 8/9/2022 108.0 77 n/a 11 11 11 Block3 Control Whitespruce 8/9/2022 577 9.5 n/a 2 8 10 Block3 Control Jackpine 8/9/2022 577 9.5 n/a 2 8 10 Block3 Control Jackpine 8/9/2022 202.0 20 127 0.6 2 2 2 2 Block3 Control Snub/vix** 8/9/2022 30.0 n/a 2 2														
Block3 Control Blockash 8/9/2022 214.6 48.3 121 0.7 9 1 I 10 Block3 Cantrol Easternwhite.cedbr 8/9/2022 1080 7.7 n/a III III III III Block3 Cantrol White.spruce 8/9/2022 57.7 9.5 n/a 2 8 10 Block3 Cantrol White.spruce 8/9/2022 57.7 9.5 n/a 2 8 10 Block3 Cantrol Jackpine 8/9/2022 57.7 9.5 n/a 2 8 10 Block3 Cantrol Jackpine 8/9/2022 57.7 9.5 n/a 2 2 8 10 Block3 Cantrol Jackpine 8/9/2022 2020 2.0 127 0.6 2 2 2 4 Block3 Cantrol Snub/vix** 8/9/2022 30.0 n/a 10 2						312			-			1		
Black3 Control Easternwhiteceator 8/9/2022 1080 77 n/a Indicator 11 11 11 Black3 Control Whitespruce 8/9/2022 577 95 n/a 2 8 10 Black3 Control Unitespruce 8/9/2022 577 95 n/a 2 8 10 Black3 Control Jackpine 8/9/2022 577 95 n/a 2 8 10 Black3 Control Jackpine 8/9/2022 2020 20 127 0.6 2 2 2 2 Black3 Control GroundCovert/Vix 8/9/2022 300 n/a 127 0.6 2 2 2 4 Black3 Control Shub/Vix** 8/9/2022 300 n/a 10 12 2 2 4						117		•	-		1		1	
Black3 Cantrol Whitespruce 8/9/2022 577 95 n/c 2 8 10 Black3 Cantrol Jackpine 8/9/2022 577 95 n/c 10 2 8 10 Black3 Cantrol Jackpine 8/9/2022 2020 20 127 0.6 2 2 2 2 4 Black3 Cantrol Snub/Vix** 8/9/2022 300 n/c 0.6 2 2 2 4 Black3 Cantrol Snub/Vix** 8/9/2022 300 n/c 2 2 2 4						483			9]			
Black3 Control Jackpine 8/9/2022 Stephented Notplanted Black3 Control GrandCover/Vix 8/9/2022 2020 20 127 0.6 2 2 2 2 4 Black3 Control Snub/Vix** 8/9/2022 300 n/a a 2 2 4		Cantrol										11		
Block3 Control GrandCover/Vix 8/9/2022 2020 20 127 0.6 2 2 2 2 2 4 Block3 Control Snub/Vix** 8/9/2022 300 n/a 2 2 4 Block3 Control Snub/Vix** 8/9/2022 300 n/a 2 4 4					577	95	r	v/a			2		8	10
Books Cantrol Gar accounting 8/9/2022 300 n/a 2 2 4 Block3 Cantrol Shub/Vik** 8/9/2022 300 n/a 2 2 4	Block3	Cantrol	Jackpine						Notp	banted				
Block3 Control Shub/Vix** 8/9/2022 Stud In/C Im/C Im/C <tht< td=""><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td></td><td></td><td>20</td><td>127</td><td>0.6</td><td></td><td></td><td>2</td><td></td><td></td><td>2</td></tht<>						20	127	0.6			2			2
					300		r	1/a				2		4
Black3 Control Community/Vix 8/9/2022													4	4
	Block3	Cantrol	CommunityMix	8/9/2022										

*Onlyane time tallenauch for DBH, no SD given **Decadspecies were not measured



	Actuallyblackspruce
	Tree
	Træ Shubs
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	Ti ces Shubs
	Troop
	Tiæs Shubs
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4	Titees Shubs
	SUICOS