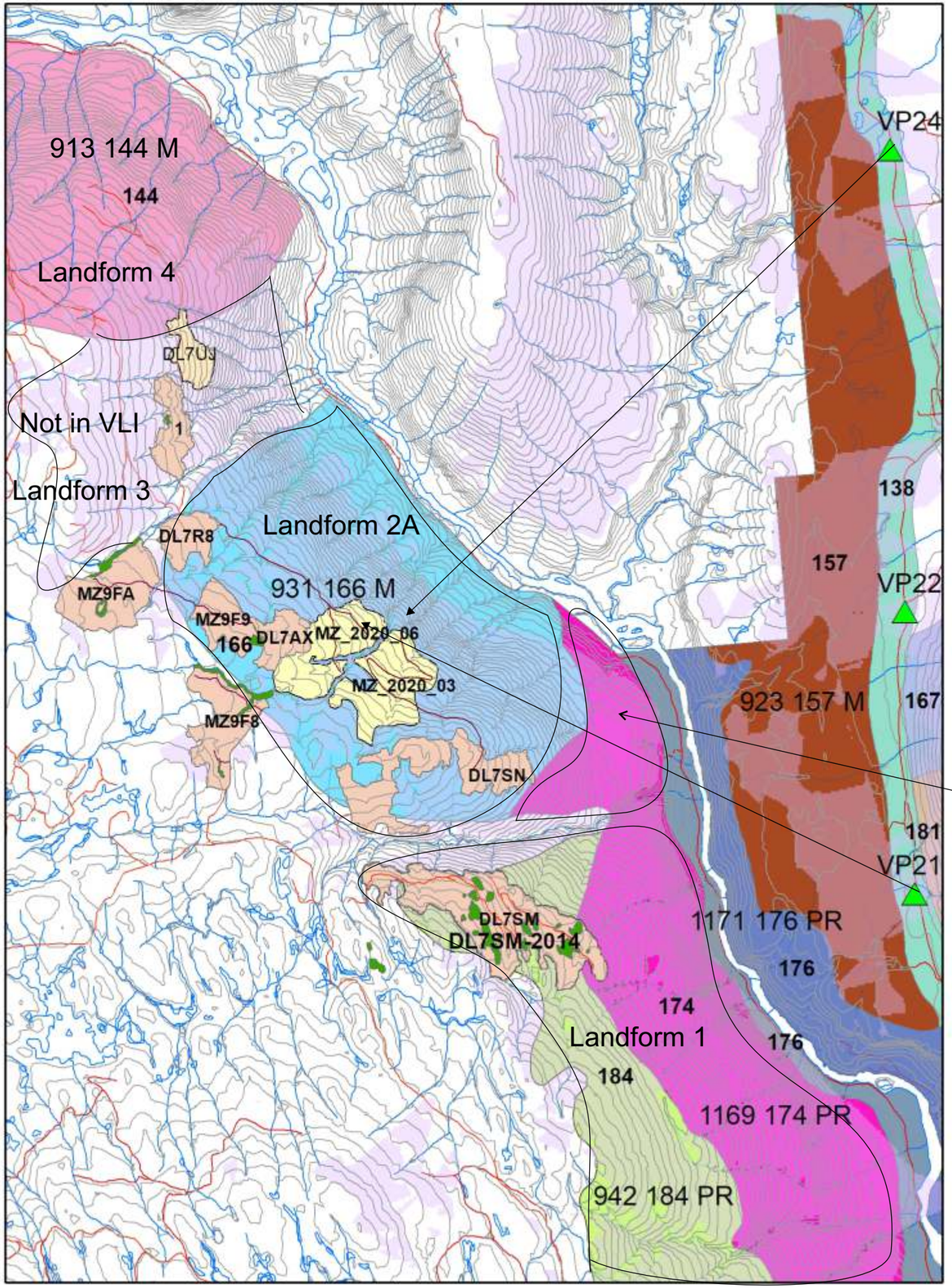


BCTS Mackenzie 2020_Dec 15
Preliminary Visual Assessment
MZ_2020_03, MZ_2020_06 Block Shapes
Produced by
RDI Resource Design Inc
December 29, 2020

- Quesnel-BCTS
- Dec_15_Existing_WTRA
- Dec_15_Proposed_Roads
- A95985_Roads
- 14-DL7SM_Roads
- DL7UJ_2012
- Dec_15_Existing_Cutblocks
- MZ_2020_03, MZ_2020_06_Block_Shapes
- A95985_MZ9FA_WTRA
- 14-DL7SM_WTRA_NP
- 14-DL7SM_Block
- Not Visible
- Visible

VSU_NUMBER

- 157
- 166
- 174
- 176
- 184
- 206
- 208

Landform 2B

Preliminary Assessment

N

0 0.5 1 2 3 4 Kilometers

RDI Resource Design Inc

Contents

Mackenzie 2020 Landforms and Cutblocks (proposed and existing)					
	L1 1169/942 PR	**L2A 931 M**	**L2B 1169 PR**	**L3 Un-rated (M recommended)**	**L4 913 M**
DL7SM-14	E				
MZ_2020_03		**P**			
MZ_2020_06		**P**			
DL7SN		E			
DL7AX		E			
MZ9F9		E			
DL7R8		E			
MZ9FA		E			
MZ9F8		E			
A89396-1				E	
DL7UJ				E	
Cutblock Proposed: P; Cutblock Existing: E					

RDI was requested to conduct a preliminary assessment of Mackenzie cutblocks MZ_2020_03 and MZ_2020_06 on December 15, 2020. The request, under contract PD18TEB007, was made by Ches Clem, RPF, Contract Administrator. A data link was provided which included cutblocks, adjacent nonVEG, existing WTRA, proposed roads, and photography from 3 viewpoints, one of which was obscured by roadside vegetation.

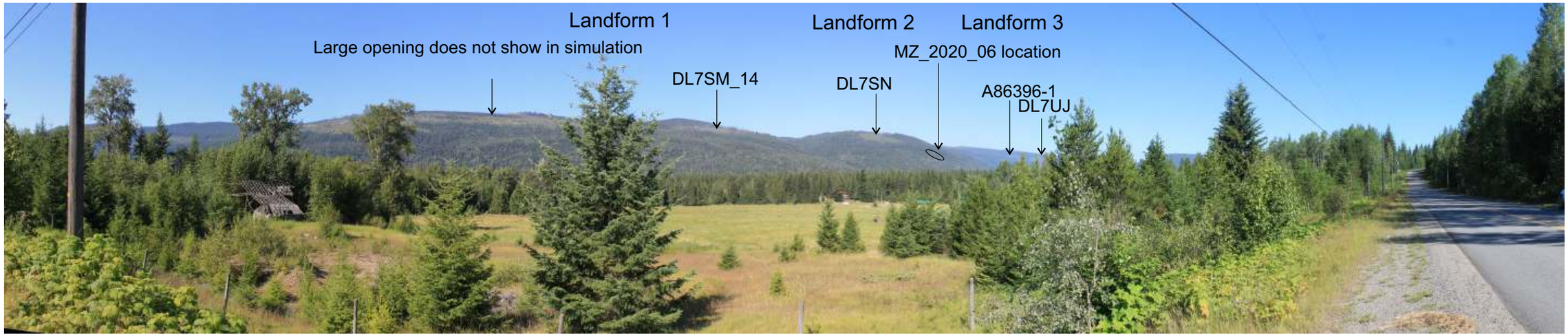
RDI entered the new data into existing ArcMap and Visual Nature Studio models. I produced full panoramic simulations from 2 open viewpoints (VP's 21 and 24), and a preview from the screened viewpoint revealing the openings as if cleared. The new cutblocks will sit within VLU 931 which has a Modification VQO. I have called this Landform 2A. A portion of VLU 1169 sits at the bottom southeast (lower left) portion of the landform, termed Landform 2B for distinction as it has a Partial Retention VQO and must be considered separately. The main part of VLU 1169 is across a main creek divide to the south. I have joined VLU 1169 and VLU 931 together creating the most southerly landform, Landform 1, as both units have the Partial Retention VQO. I added an un-recorded gap in the VLI between L1 and L2 to the landforms, mainly to L2 as seen from Viewpoint 21. Beyond L2 to its north is a broad unrecorded area in the VLI which I have termed Landform 3. Beyond that is a Modification polygon, VLU 913, which has a Modification VQO. As the un-recorded L3 sits between two Modification polygons, it would be reasonable to assign the same VQO to that un-assigned polygon.

The adjacent table shows the landforms, their constituent VLI/VSU numbers, their VQOs, and the cutblocks and existing cutblocks within each. Each are identified in the following photography and simulation sheets for each viewpoint as shown in the Contents (opposite). I added a preview simulation from VP 22, the screened viewpoint, for reference purposes only. The orientation is fairly similar to VP 24. Bare land simulations were also produced depicting the structure of the land, colour-coded for the VLI polygons.

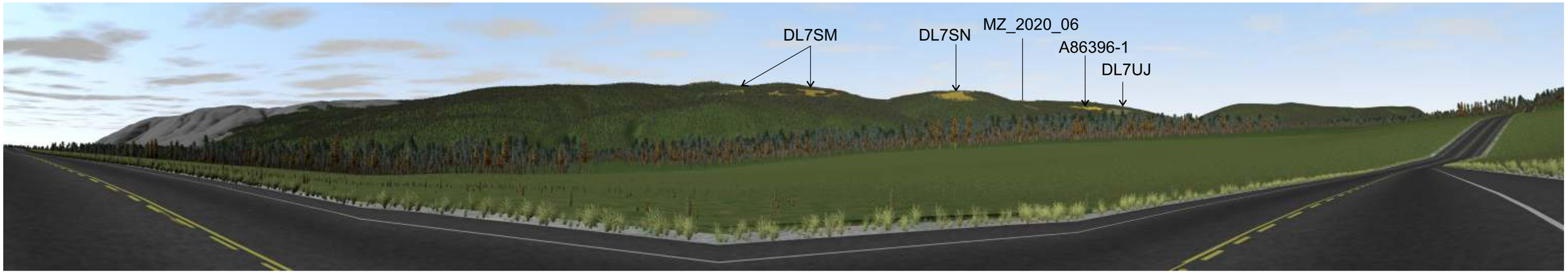
Percent Alteration calculations were produced from VP 21 and VP 24. VP 21 is within the Modification VQO at 10.99% while VP 24 slightly exceeds it at 18.62%. The calculation tables are provided on the viewpoint analysis sheets.

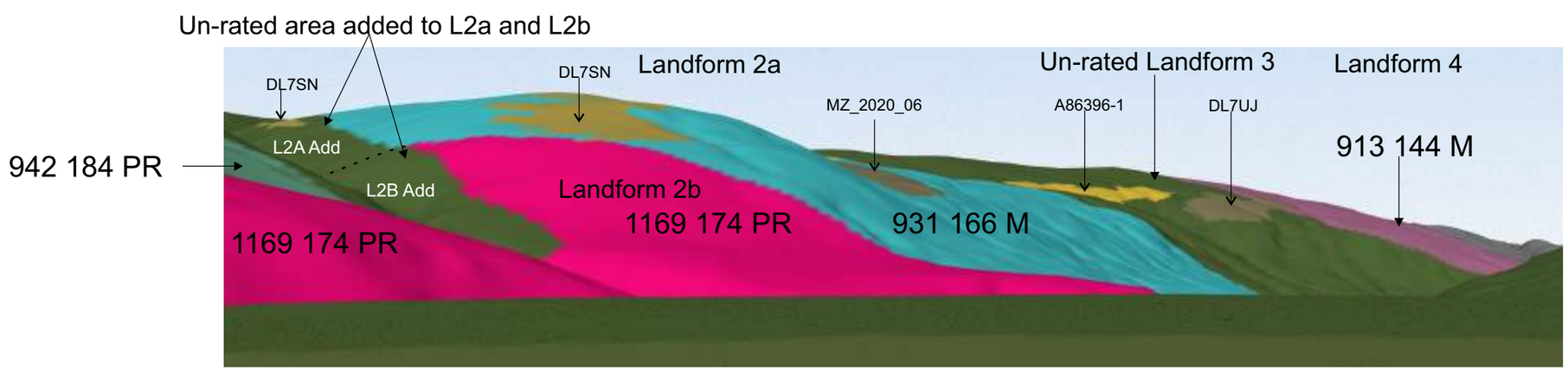
This was a preliminary assessment intended to help guide field layout. I made a recommendation to observe the visual force lines. This recommendation could require strengthening visual forces travelling through and between the cutblocks by adding and broadening leave strips. The concentration of the 2 cutblocks together becomes a focal point that needs some reduction, separation, or dispersal in the landform. RDI will review the trial alternatives when received, then will consider the addition of WTPAs.

Ken B. Fairhurst, PhD, RPF
RDI Resource Design Inc
December 29, 2020

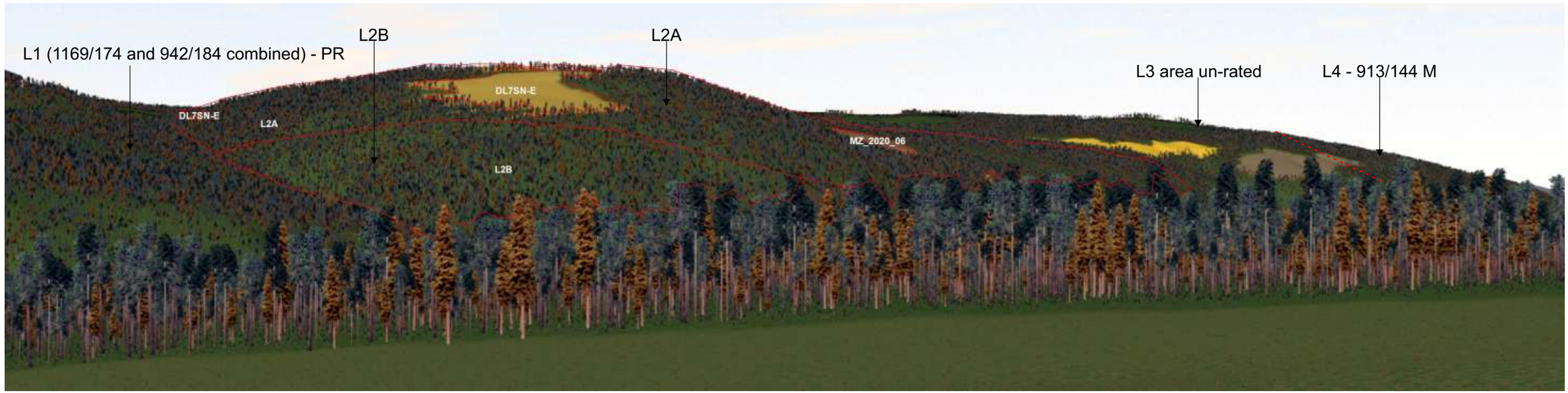


Photos by Ches Clem; Panorama by RDI





Viewpoint 21: 51 48 53.5, 120 01 32.4



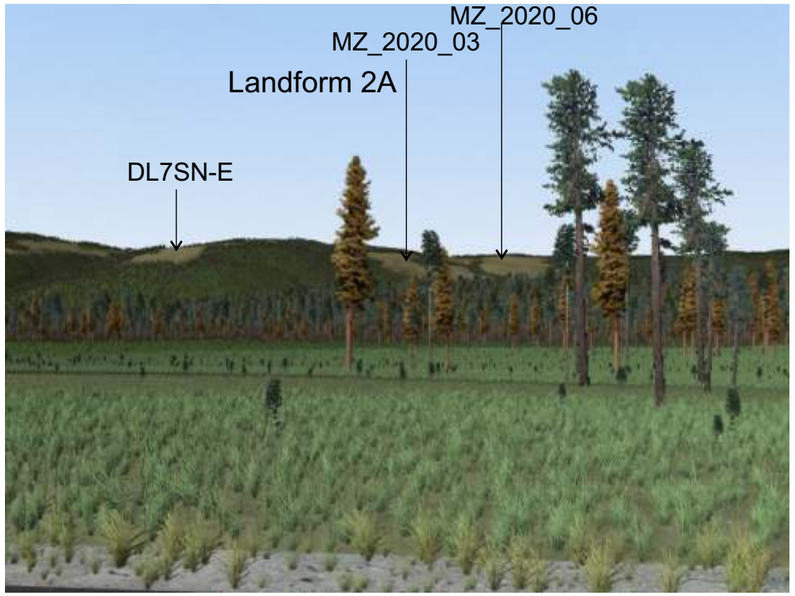
Landform 2B is part of VLI Polygon 1169 / VSU 174 which has a Partial Retention VQO and is kept separate from Landform 2A (VLI Polygon 931 / VSU 166) which has a VQO of Modification. Area to right (north) of L2 is un-rated in VLI and is called L3 by RDI L3 is between Modification polygons L2 and L4 and therefor should receive the same recommended VQO.

Percent Alteration Landform 1A from VP 21		
Name	**AREA2**	**% Alt**
L2A	114252.48	
DL7SN-E	11446.63	10.02%
DL7SN-E	155.76	0.14%
MZ_2020_06	959.06	0.84%
Sum Alt L1A	12561.45	**10.99%**
L2B	83518.07	
Sum Alt L2	0.00	**0.00%**

Viewpoint 21: 51 48 53.5, 120 01 32.4 Percent Alteration

Photos by Ches Clem; Panorama by RDI

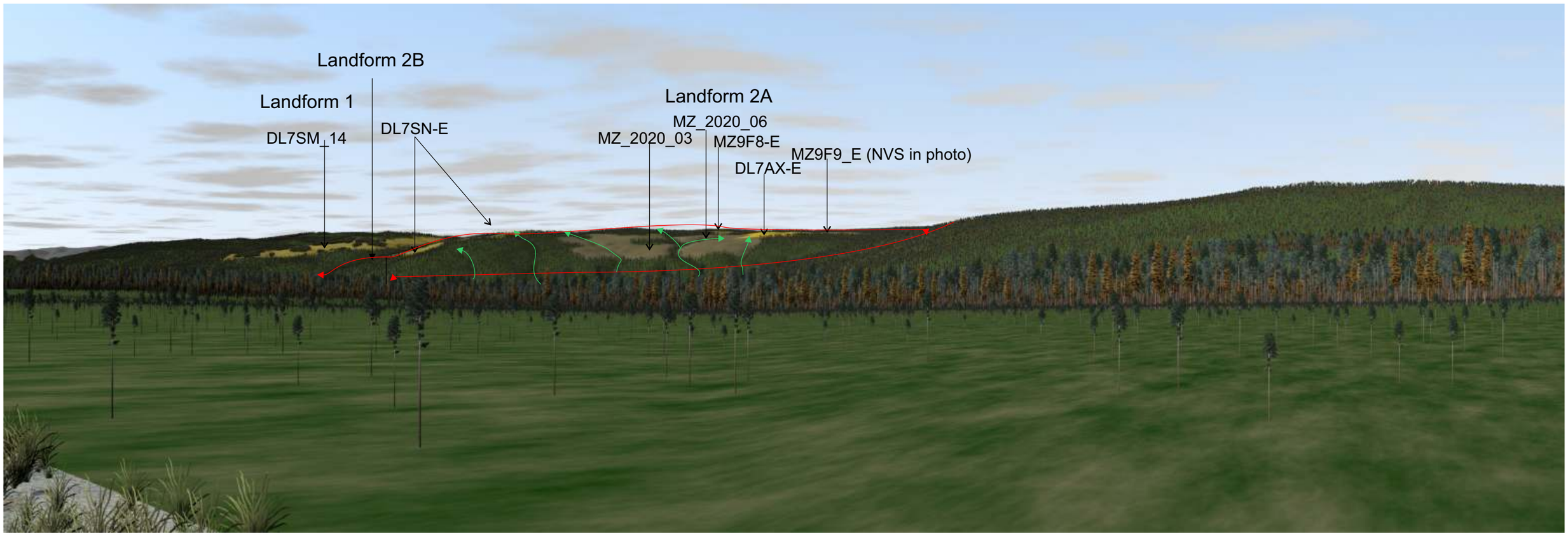
Photos by Ches Clen; Panorama by RDI



Simulation from VP 22 with roadside clearing for demonstration purposes
See VP 24 for open view

Viewpoint 22: 51 50 41, 120 01 24.7

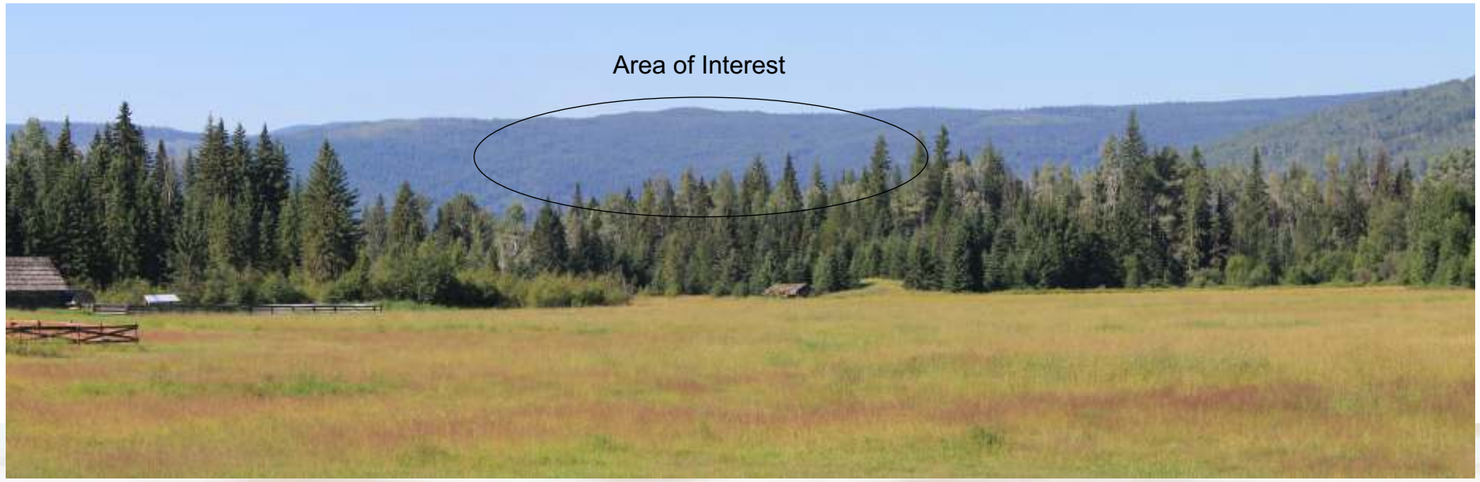
Photos by Ches Clem; Panorama by RDI



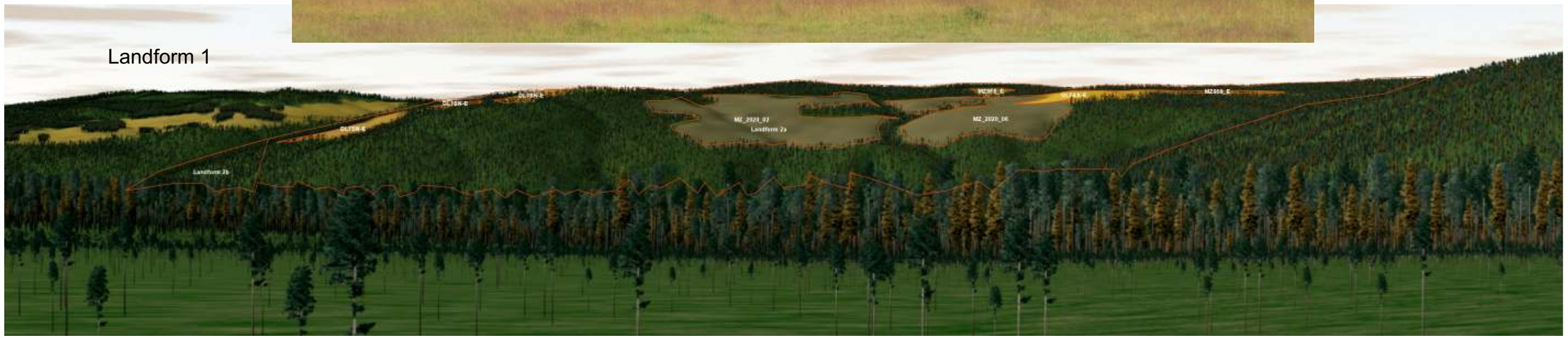
Visual Force Convexity

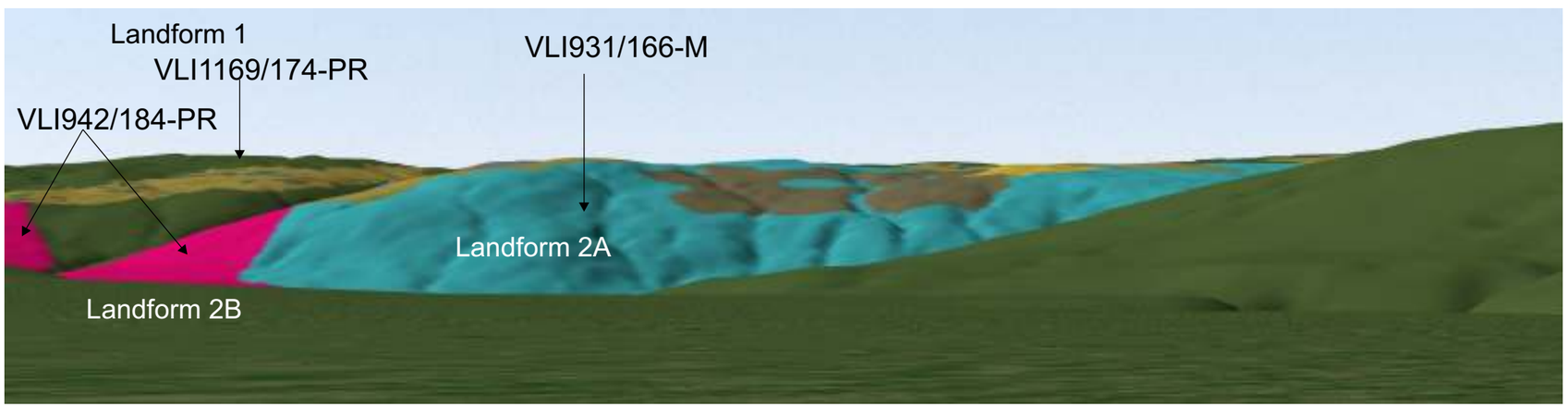
Visual Force Concavity

Viewpoint 24: 51 52 49.8, 120 01 13.4



Photos by Ches Clem; Panorama by RDI





Viewpoint 24 Percent Alteration		
Name	**AREA2**	**%Alt**
Landform 2a	195989.41	
MZ_2020_03	18613.20	9.50%
MZ_2020_06	12889.61	6.58%
DL7AX-E	1633.09	0.83%
MZ959_E	641.51	0.33%
DL7SN-E	1398.38	0.71%
DL7SN-E	215.16	0.11%
DL7SN-E	752.90	0.38%
MZ9F8_E	344.95	0.18%
Sum Alt L2a	36488.79	**18.62%**
Landform 2b	7359.87	
Nil	0.00	0.00%
Sum Alt L2b	0.00	**0.00%**

Viewpoint 24: 51 52 49.8, 120 01 13.4