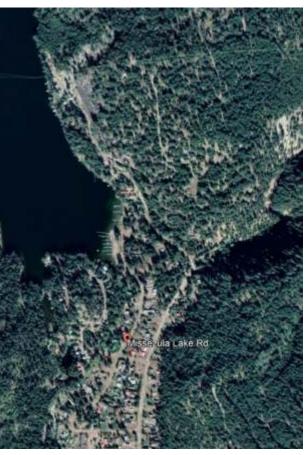
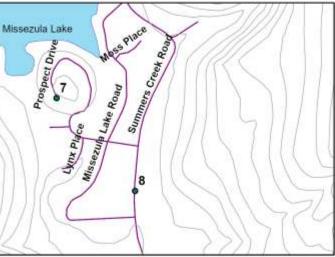


Visual Impact Assessment - TSL TA2081 - Ketchan 2023 Cut Blocks KT91J, KT91L, KT91U, KT91V, KT9Y4, KT\_2016\_20 (NVS)



Google Earth Image 2021





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#### Background

Bradley White, RPF, Planning Forester, BCTS, Kamloops Business Area, requested that RDI conduct a visual impact assessment under contract number PD23TEB097 for TSL A2018 on February 10, 2021 for Mathieu Charbonneau, Practices Forester, Merrit Field Unit. Mathieu assembled the visuals project files for the Ketchan chart in the Merritt TSA. The Mathieu files also contained scattered existing FTEN openings, proposed roads, existing alteration, and WTRA's. There were no recent non-greened-up openings, subject to on-site inspection. A80199 (2009) and A68078 (2002) are assumed to have visually effective greenup (VEG) given the extensive period for regrowth.

A total of 6 cutblocks were included for the assessment on the east side of Summers Creek near the south end of Missezula Lake: **Cut Blocks KT91J, KT91L, KT91U, KT91V, KT9Y4, KT\_2016\_20 (NVS)**. A 2021 VIA prepared by RDI also looked at 6 cutblocks on the west side of Missezula Lake and Summers Creek. These had no influence on the east-side landscape and were not further addressed herein.

RDI created an ArcGIS Pro project file with blocks, roads, existing cutblocks, etc. RDI acquired a 3-D digital elevation model (DEM), hydrology, and additional roads from Maps Canada Convec site. Roads and road names were also acquired from Convec. RDI used the Visual Landscape Inventory area and the current forest VRI from our archive. No photography was available for interpretation, but would be added to the report and assessed if provided.

The 20m DEM was entered into Visual Nature Studio along with the cutblock data and viewpoints for simulation. RDI established 7 viewpoints from which generate visual simulations using Visual Nature Studio. Four viewpoints were placed along the lake from the south end northward (Vp's 1-4), and three potential viewpoints were placed on roads within the community of Missezula Lake (Vp's 7-9). Preliminary simulations were produced from each viewpoint, noting which cutblocks were visible, if any, and the degree of visual apparency. Two landforms were identified with the help of viewshed analysis for the landscape influenced by the cutblocks on the east side only. Visual Landscape Inventory was imported from RDI's archive and portrayed along with all other data in the ArcMap key map presented on page 1 of this document. Both landforms contained a single visual sensitivity unit - VSU 475 (VLI # 2150) which has an established Visual Quality Objective (VQO ) of Partial Retention. The VSU provides incomplete visual coverage of the landscape seen from the viewpoints. RDI extended the VQO assigned in the VLI to the remaining area of the visible landforms. Only Landform 1 contained visible cutblocks. Landform 2 has no visible openings. KT\_2016\_20 is Landform 2 but is not seen (NVS).

The results from the 2021 analysis indicated that KT\_2016\_23 would be dominant in the views. BCTS responded with a much-reduced opening size and much reduced apparency with varied boundaries and internal WTRA's. The block was renamed KT91L.

#### Results

RDI produced simulations using Visual Nature Studio from each of the viewpoints. Viewpoint 7 and 8 required double width views to encompass the landforms with 45 degree field of view (42mm) lens. RDI didn't have the benefit of photography to assist in the analysis. Percent alteration calculations were produced from 2 viewpoints: VP1 at the south end of Missezula Lake (7.42% perspective alteration - 0.42% above the PR limit), and VP7 at the top end of Prospect Drive (4.51% alteration - 1.49% below the upper limit for PR). The detailed percent alteration calculations are presented on the respective pages in this report. All other viewpoint provided less open viewing but are presented on their respective viewpoint pages in the report for ease of comparison. The adjacent table indicates the visibility of each cutblock from each viewpoint.

The 2022 VIA Handbook includes procedures for numerical adjustment factors to initial VQC category of alteration as per FPPR Sec 1.1 Categories of Altered Forest to determine if "Well met, Met, Inconclusive, Not Met, or Clearly Not Met". The same numerical adjustment is also used in the FREP Visual Quality Effectiveness Rating procedure. RDI has been applying the FPPR/FREP approach in many of its VIAs since 2015 and is pleased to see this addition to the formal VIA process. The table on page 45 (Appendix 1) placed the numerical ranges of the 2001 VIA Guidebook alongside FPPR Scale definitions "to help put parameters around the notion of scale". They are described on page 23 as "a reasonable predictor" but subordinate to the ocular estimate, and "Most Probable Percent Landform Alteration in Table 2, p. 25. See next page for RDI's application of the procedure for viewpoints 1 and 7, referencing pages 23 to 37 of the Handbook.

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The Partial Retention Visual Quality Class consists of altered forest landscape in which the alteration, when assessed from a significant viewpoint, is: (i) easy to see, (ii) small to medium in scale, and (iii) natural and not rectilinear or geometric in shape.

Application of the adjustment factors resulted in the final percent alteration from Viewpoint 7 of 4.08% (well within the PR limit) and 6.98% from Viewpoint 1 (at upper PR limit). Considering the two measures for VQO achievement of 1) the verbal definition (the primary determining factor) and 2) the adjusted percent alteration, the VQO of PR is "well met" from Viewpoint 7 and "met" from Viewpoint 1. The key achievement in meeting the VQO is the design of KT91L with reduced scale, highly varied boundaries and very substantial WTRA's.

Ka B. Jan hund

Ken B. Fairhurst, PhD, RPF RDI Resource Design Inc May 18, 2023

Cutblock Visibility, by Viewpoint							
	VP 1	VP 2	VP 3	VP 4	VP 7	VP 8	VP 9
КТ91Ј	V	V	V	V	V	nvs	V
KT91L	V	V	nvs	nvs	V	V	V
KT91U	V	V	nvs	nvs	V	nvs	V
KP9Y4	V	V	nvs	nvs	V	V	V
KT91V	V	V	nvs	nvs	V	nvs	V
KT_2016_20	nvs						

V = visible from viewpoint; nvs = not visually sensitive (i.e., not seen from viewpoint)

## **Summary Report**



### APPENDIX 1: VISUAL IMPACT ASSESSMENT SUMMARY FORM

3.1.1 Site Information (Office)						
Natural Resource District			Licensee			
General Location Ketchan			Licence No CP No Block			
3.1.3 FSP & Objective Information (Office)						
VLI Polygon No. 2150 EVC VAC	VSC	EVQO	PR	Date Est Source Document		
3.2.1 Viewpoint (Field)				3.2.2 Photography (Field)		
GPS Longitude			Camera Make & Model Lens Focal Length Sensor Crop Factor Adjusted Focal Length			
GPS Latitude						
Elevation (m)				Digital Photo ID No <sup>1</sup> 2		
Viewing Direction Viewing	Distance289	0m		Viewpoint Description Missezula Lake		
Viewpoint Importance: 1 2 3 4 5						
3.4.1 Assess Basic VQC (Ocular)				Category of Alteration Criteria		
Alterations meet which VQC definition? Mark I	location on the se	ale:		<ol> <li>not easily distinguishable, difficult to see, easy to see or very easy to see</li> </ol>		
				2. very small, small, medium, large, or very large in scale		
Basic VQC: P R PR M		MM		3. natural in appearance angular in appearance, rectilinear or geometric.		
- -  X  X	I	<b>→</b>				
3.4.2 Numerical Assessment Initial VQO (Simu	lation) VLH	P23		3.4.4 Partial Cut Alterations		
a) % of landform altered by proposed openings		8	7.4%	Proposed Partial Cutting % removal N/A		
b) % of landform in access roads (outside openings) $n/a$			Average tree height (m)			
c) % non-VEG contribution of existing openingsn/a			Clearcut equivalent %			
X = (a+b+c) 7.4% #alteration	Initial VQO	t)	PR+	Enter or add this value on line 3.4.2(a)		
3.4.3 Assess Adjusted VQO (Simulation) V	'LH P26-29			3.5.1 Determine VQO rating on landform (Note: The definition is the primary determining factor.)		
Design Elements:	G (-1)	M (0)	P (+1)	Well met		
Response to visual force lines	-1			Definition achieved; % alteration well within VQO range		
Borrows from natural character	-1			X Met		
Edge treatments incorporated		0		Definition achieved; % alteration may be near boundary or in excess o		
Distance from the viewpoint		0		VQO range		
Position on the landform		0		In-conclusive		
Number, Size and Spacing of Alterations	-1		_	Definition on class boundary, % alt. may be in excess of VQO range.		
a) Design		Adj. Factor	-3	Not met		
b) Impact of roads, sidecast, etc. (within openings)				Definition not achieved; % alteration may be near boundary or within		
Xrone □ subordinate □ significant □ dominant Adj. Factor 0			VQO range			
c) Tree retention:   Good  Moderate Poor Adj. Factor 0			Clearly not met			
WTRA Netted Out of %Alt Total adjustment: $Y = (a+b+c)$			Definition not achieved: % alt. in excess of VQO range			
Calculate Adjusted % alteration:	X*(1+	+ 0,14*Y) =	6.98%			
Adjusted VQC: P R PR	М	MM				
Let the		<b> </b> →		3.5.2 Rationale		
X						
%alt: 0 1.5 4 7 12	18	24 30+				

### APPENDIX 1: VISUAL IMPACT ASSESSMENT SUMMARY FORM

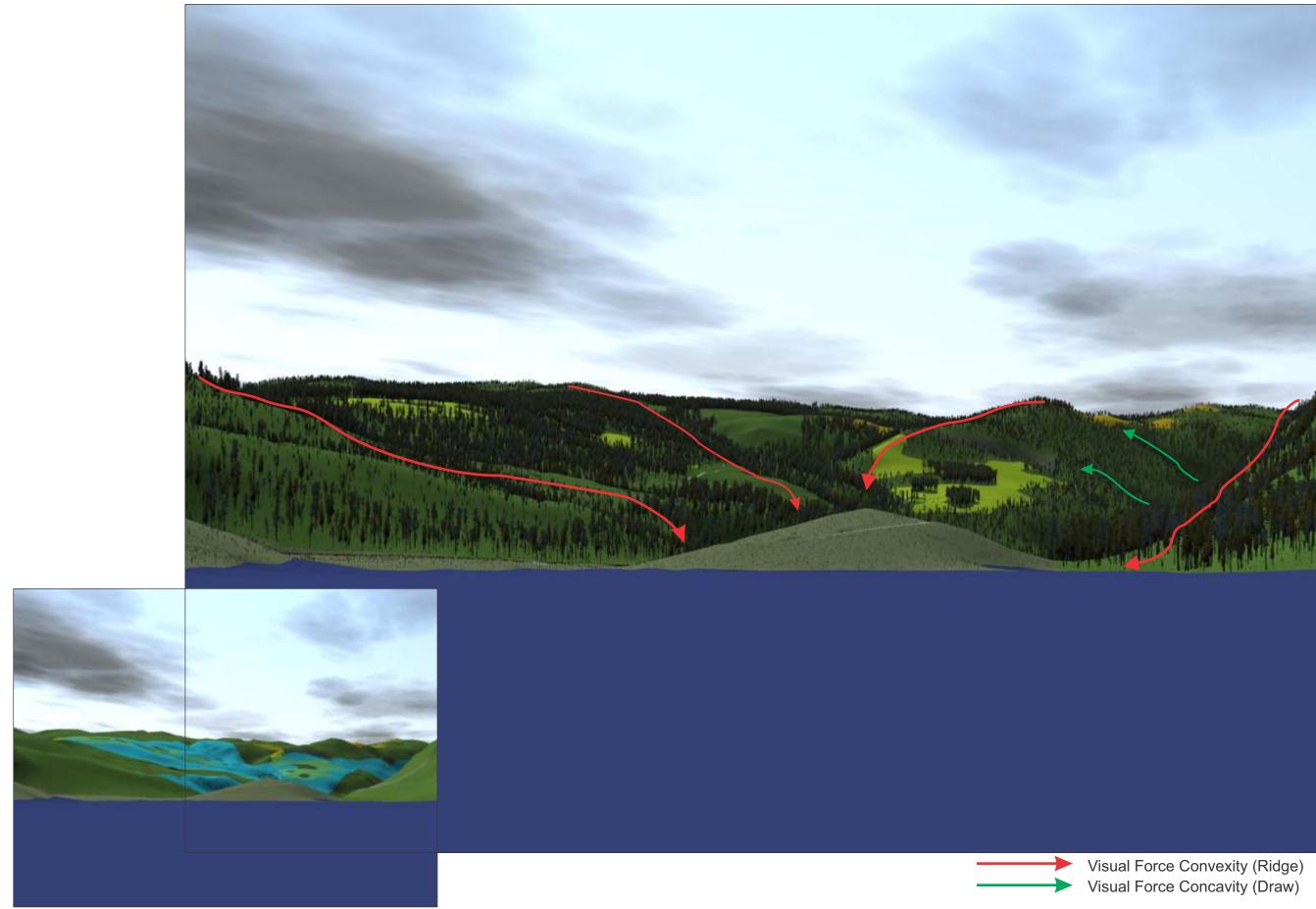
(To be completed from each viewpoint analyzed)

Natural Resource District				
		Licensee		
General Location Ketchan		Licence No CP No Block		
3.1.3 FSP & Objective Information (Office)				
VLI Polygon No. 2150 EVC VA	CVSCEVQO_PR	Date EstSource Document		
3.2.1 Viewpoint (Field)		3.2.2 Photography (Field)		
GPS Longitude		Camera Make & Model Lens Focal Length		
GPS Latitude		Sensor Crop Factor Adjusted Focal Length		
Elevation (m)		Digital Photo ID No's		
Viewing Direction Viewing	g Distance 1960m	Viewpoint Description Top End of Prospect Drive		
Viewpoint Importance: 1 2 3 4 5				
3.4.1 Assess Basic VQC (Ocular) VLH P2	23	Category of Alteration Criteria		
Alterations meet which VQC definition? Mark	clocation on the scale:	1. not easily distinguishable, difficult to see, easy to see or very easy to see		
Basic VQC: P R PR	M MM	2. very small, small, medium, large, or very large in scale		
		<ol> <li>natural in appearance angular in appearance, rectilinear or geometric.</li> </ol>		
-+- X	-			
3.4.2 Numerical Assessment Initial VQO (Sim	ulation) VLH P26-28	3.4.4 Partial Cur Alterations		
a) % of landform altered by proposed openings	4.51%	Proposed Partial Cutting % removal N/A		
b) % of landform in access roads (outside openi	ings) n/a	Average tree height (m) Clearcut equivalent % Enter or add this value on line 3.4.2(a)		
c) % non-VEG contribution of existing opening	n/a			
x = (a+b+c) _4.51% alteration	Initial VQO: PR			
3.4.3 Assess Adjusted VQO (Simulation)	1.1.1 million (1998)	2.6 1 Describe WAO estimate her Konst		
3.4.3 AMERICAN PROPERTY CALL CONTINUES OF	UT TI DOC OO	3.5.1 Determine VQO rating on landform (Note: The definition is the primary determining factor.) P37		
	VLH P26-29	(Note: The definition is the primary determining factor.)		
	G (-1) M (0) P (+1)	(Note: The definition is the primary determining factor.)		
Design Elements;		(Note: The definition is the primary determining factor.)		
Design Elements;	G (-1) M (0) P (+1)	(Note: The definition is the primary determining factor.)		
Design Elements; Response to visual force lines	G (-1) M (0) P (+1)	(Note: The definition is the primary determining factor.)     P37       X Well met     Definition achieved; % alteration well within VQO range		
Design Elements: Response to visual force lines Borrows from natural character Edge treatments incorporated	G (-1) M (0) P (+1) -1 -1 0 0 0	(Note: The definition is the primary determining factor.)       P37         Image: Comparison of the primary determining factor.)       P37		
Design Elements: Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint	G (-1) M (0) P (+1) -1 -1 0	(Note: The definition is the primary determining factor.)       P37         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)         Image: Second state in the primary determining factor.)       Image: Second state in the primary determining factor.)		
Design Elements; Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform	G (-1) M (0) P (+1) -1 -1 0 0 0	(Note: The definition is the primary determining factor.)       P37         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of the primary determining factor.)       Image: Constraint of the primary determining factor.)         Image: Constraint of		
Design Elements: Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations	G (-1) M (0) P (+1) -1 -1 0 0 0 0 0	(Note: The definition is the primary determining factor.)       P37         Image: Image i		
Design Elements: Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations a) Design	G (-1) M (0) P (+1) 1	(Note: The definition is the primary determining factor.)       P37         Image: Image i		
Design Elements: Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations a) Design	G (-1) M (0) P (+1) 1	(Note: The definition is the primary determining factor.)       P37         Image: Image i		
Design Elements; Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations a) Design b) Impact of roads, sidecast, etc. (within opening Control ubordinate = significant = domi c) Tree retention: == Good == Moderate == Poor	G (-1) M (0) P (+1) 1	(Note: The definition is the primary determining factor.)       P37         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the primary determining factor.)         Image: Control of the primary determining factor.)       Image: Control of the prim		
Design Elements; Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations a) Design b) Impact of roads, sidecast, etc. (within opening) X none I subordinate I significant I domi c) Tree retention: I Good I Moderate I Poor WTRA Netted	G (-1) M (0) P (+1) 1	(Note: The definition is the primary determining factor.)       P37         Image:		
Design Elements; Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations a) Design b) Impact of roads, sidecast, etc. (within opening Knone = subordinate = significant = domi c) The retention: = Good = Moderate = Poor WTRA Netted Total adjuatment: Y = (a+b+c)	G (-1) M (0) P (+1) 1	(Note: The definition is the primary determining factor.)       P37         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the primary determining factor.)         Image: Control in the primary determining factor.)       Image: Control in the prim		
Design Elements: Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations a) Design b) Impact of roads, sidecast, etc. (within opening) Chaine Subordinate Significant domi c) Tree retention: Good Mederate Phoor WTRA Netted Total adjustment: Y = (a+b+c) Calculate Adjusted% alteration:	G (-1) M (0) P (+1) -1 -1 0 0 0 -1 Adj. Factor o Out of %Alt Adj. Total3	(Note: The definition is the primary determining factor.)       P37         Image:		
Design Elements; Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations a) Design b) Impact of roads, sidecast, etc. (within opening X none = subordinate = significant = domi e) Tree retention: = Good = Moderate = Poor WTRA Netted Total adjuatment: Y = (a+b+c) Calculate Adjusted % alteration:	G (-1) M (0) P (+1) -1 -1 0 0 0 -1 Adj. Factor 0 Adj. Factor 0 Adj. Total -3 X*(1+0.14*Y) = 4.089	(Note: The definition is the primary determining factor.)       P37         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the primary determining factor.)       Image: Provide the primary determining factor.)         Image: Provide the		
Design Elements: Response to visual force lines Borrows from natural character Edge treatments incorporated Distance from the viewpoint Position on the landform Number, Size and Spacing of Alterations a) Design b) Impact of roads, sidecast, etc. (within opening) © name □ subordinate □ significant □ domi c) Tree retention: □ Good □ Mederate □ Poor WTRA Netted Total adjustment: Y = (a+b+c) Calculate Adjusted% alteration:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(Note: The definition is the primary determining factor.)       P37         Image:		

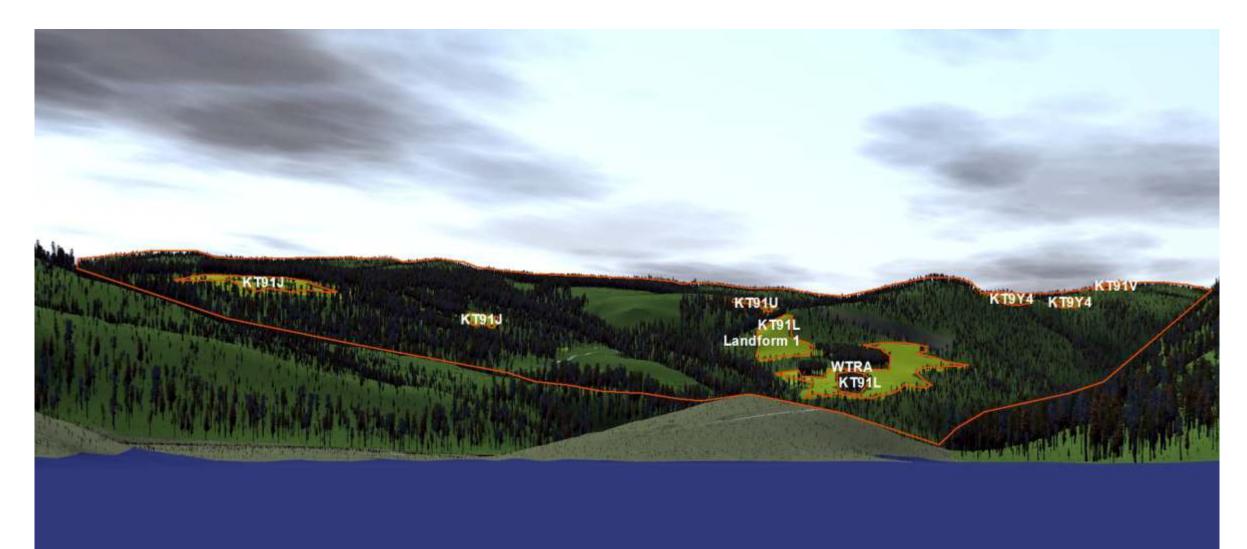
## **VIA Summary Forms**

Viewpoint Number VP7 of \_\_\_\_\_









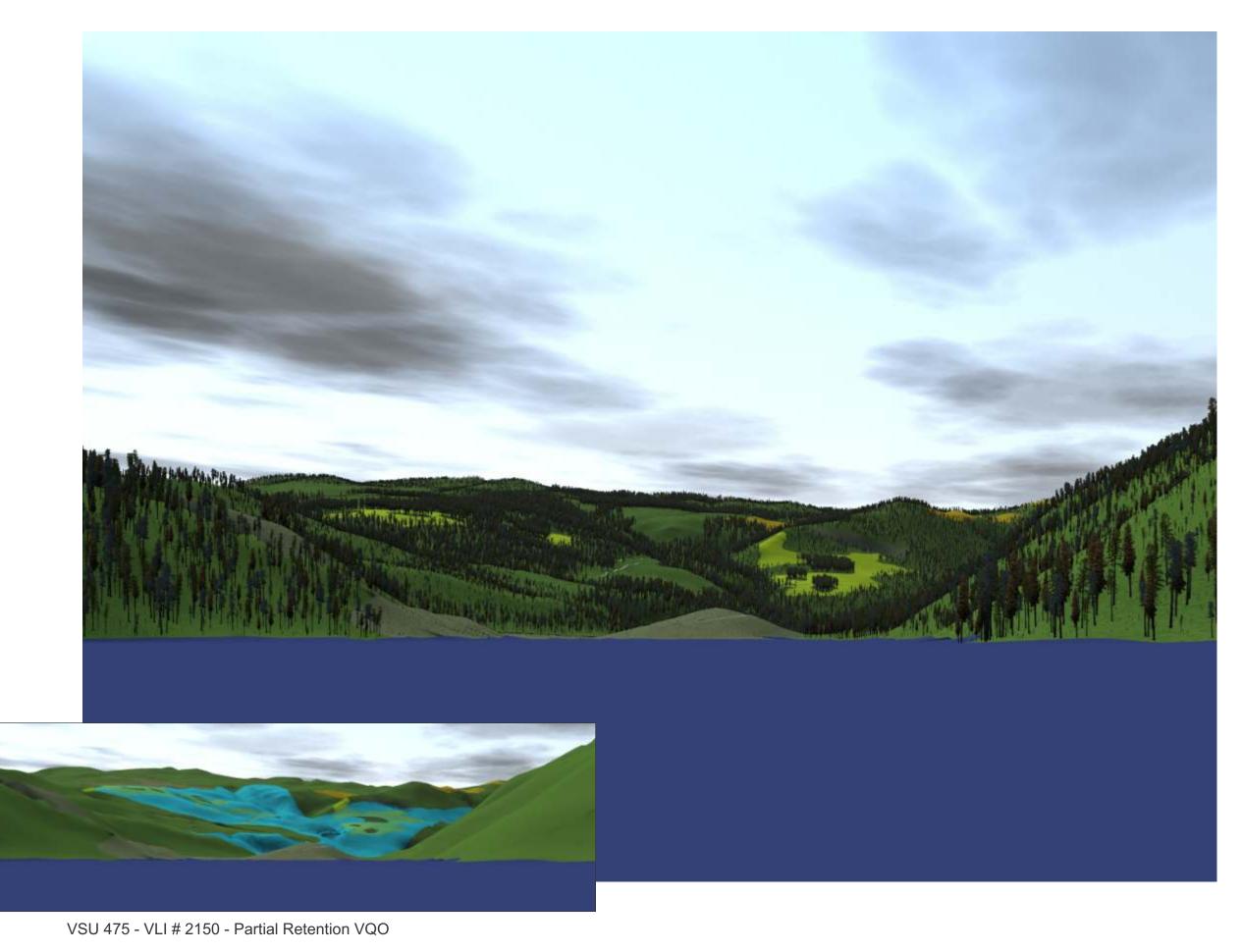


Percent Alteration Viewpoint 1 (Missezula Lake)				
Name	AREA2	% Alt		
Landform 1	263319.34			
KT91L	3721.06	1.41%		
KT91L	9962.16	3.78%		
WTRA (deduct)	1448.78	-0.57%		
КТ9Ү4	762.23	0.29%		
КТ9Ү4	471.21	0.18%		
KT91V	285.61	0.11%		
KT91J	3029.10	1.15%		
KT91J	778.45	0.30%		
KT91U	532.48	0.20%		
Sum Alt	19542.31	7.42%		

VSU 475 - VLI # 2150 - Partial Retention VQO

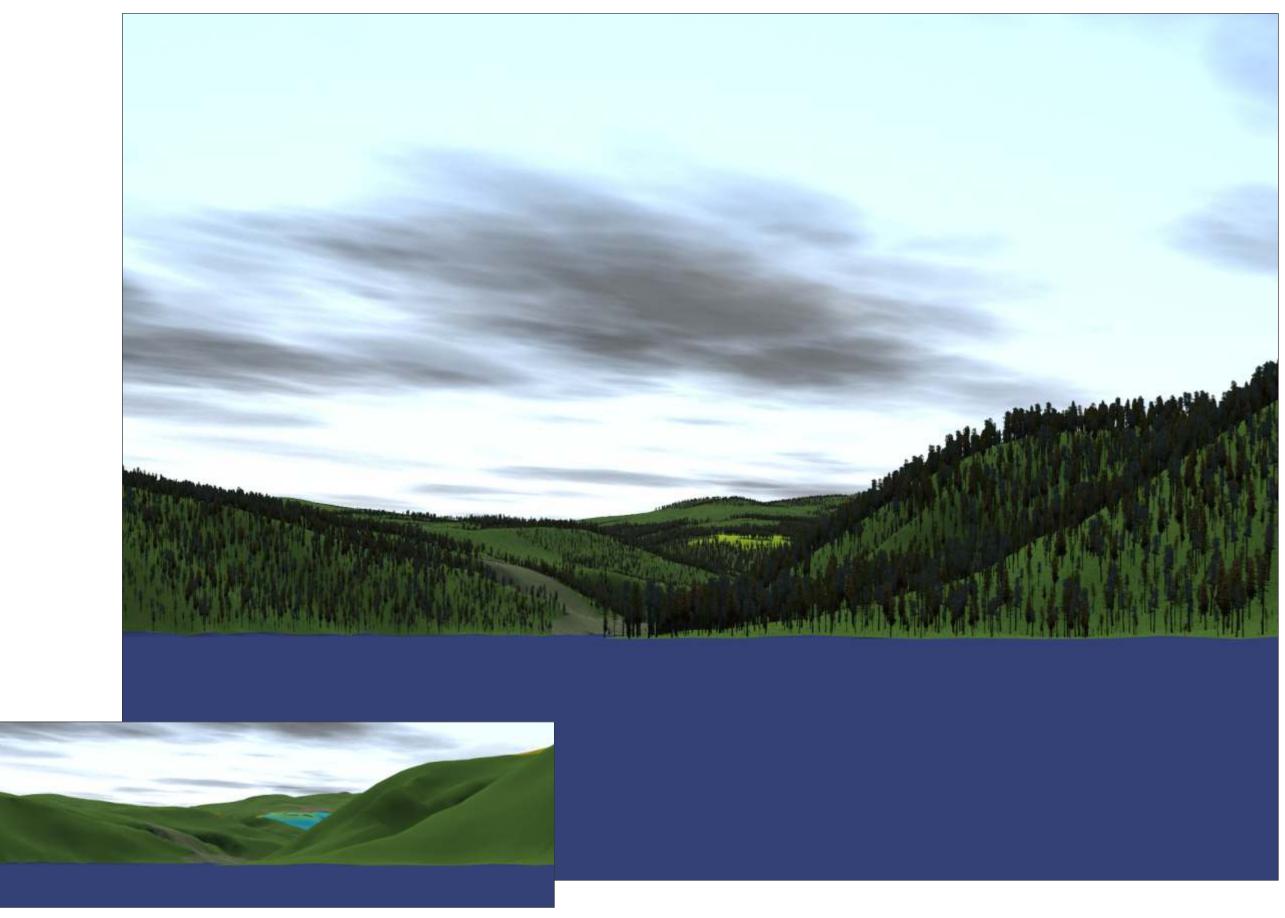
Viewpoint 1 Percent Alteration - (Missezula Lake)





Viewpoint 2 Simulation (Missezula Lake)



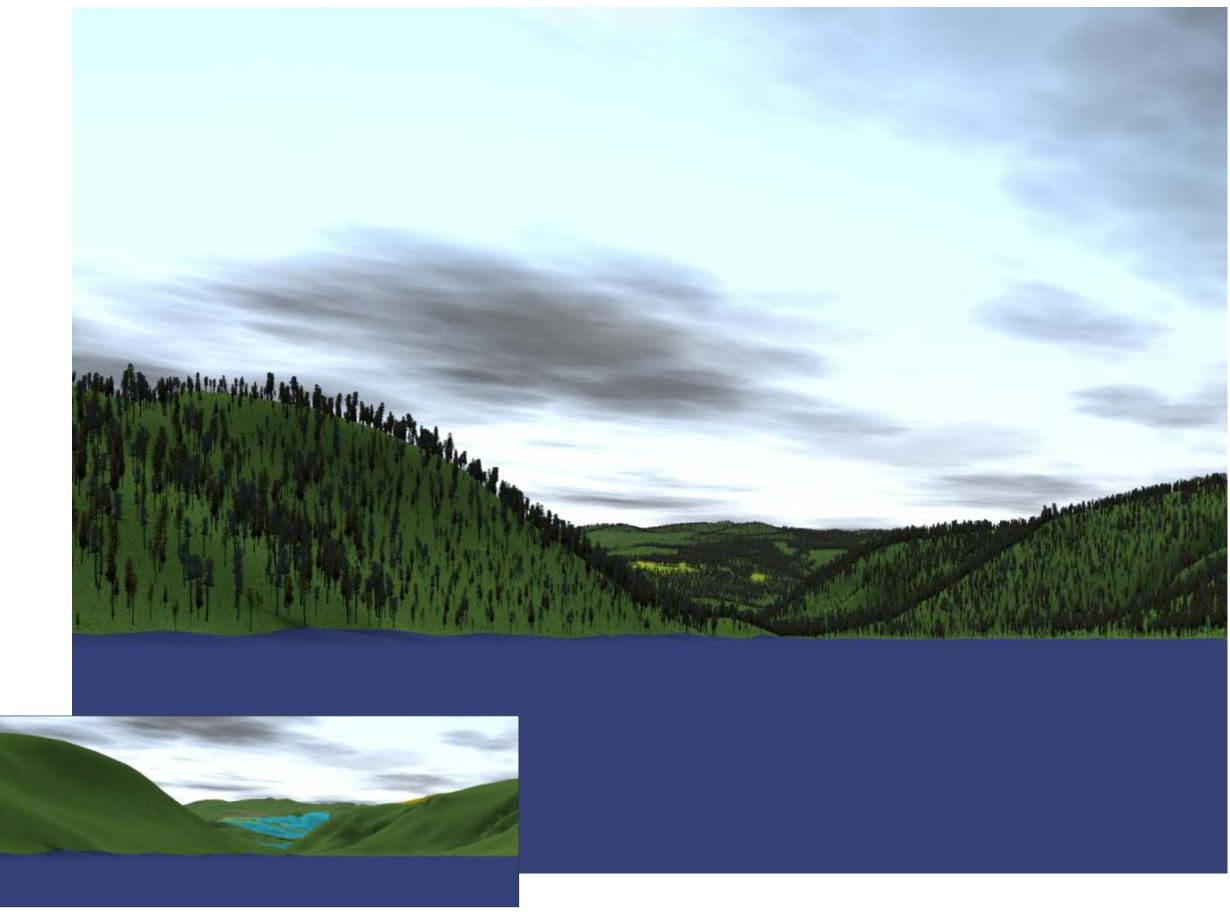


VSU 475 - VLI # 2150 - Partial Retention VQO

Viewpoint 3 Simulation (Missezula Lake)



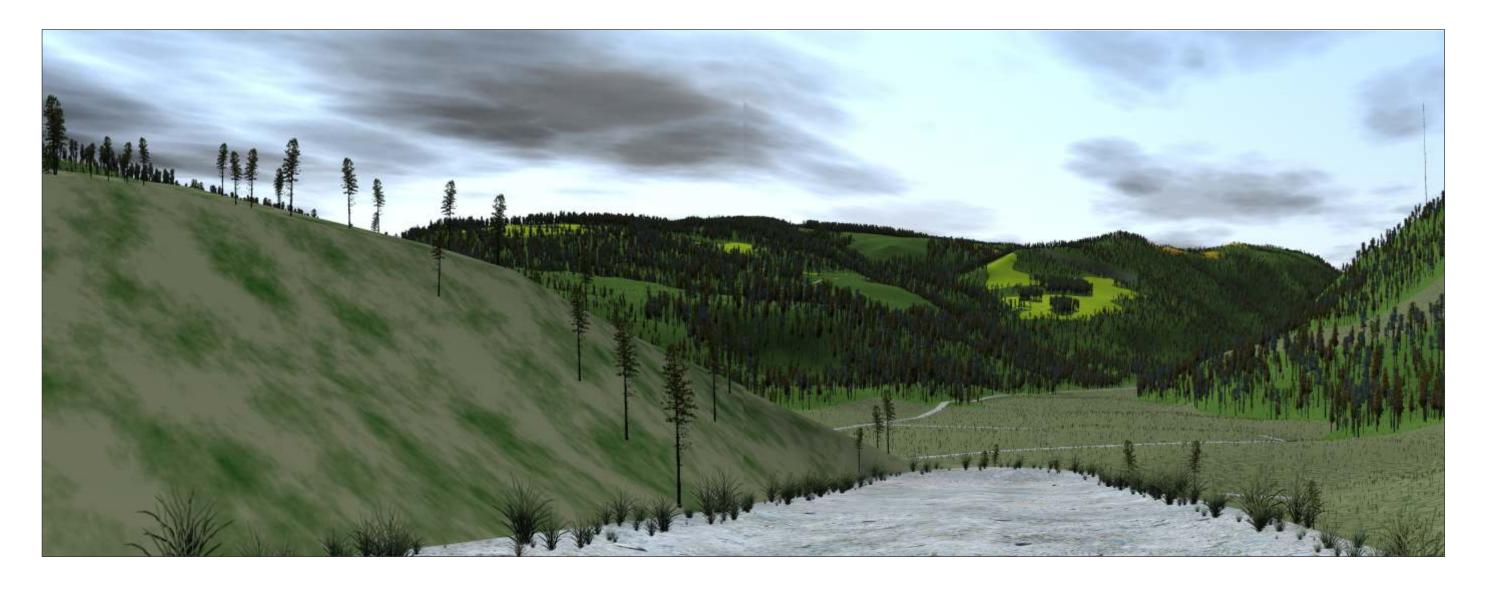


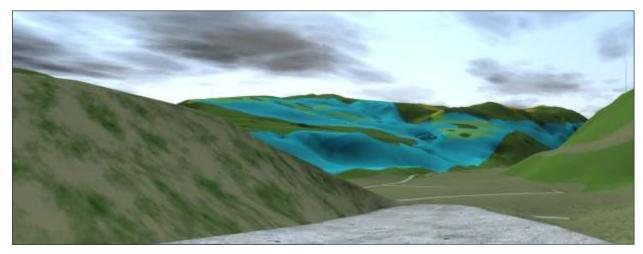


VSU 475 - VLI # 2150 - Partial Retention VQO

Viewpoint 4 Simulation (Missezula Lake)



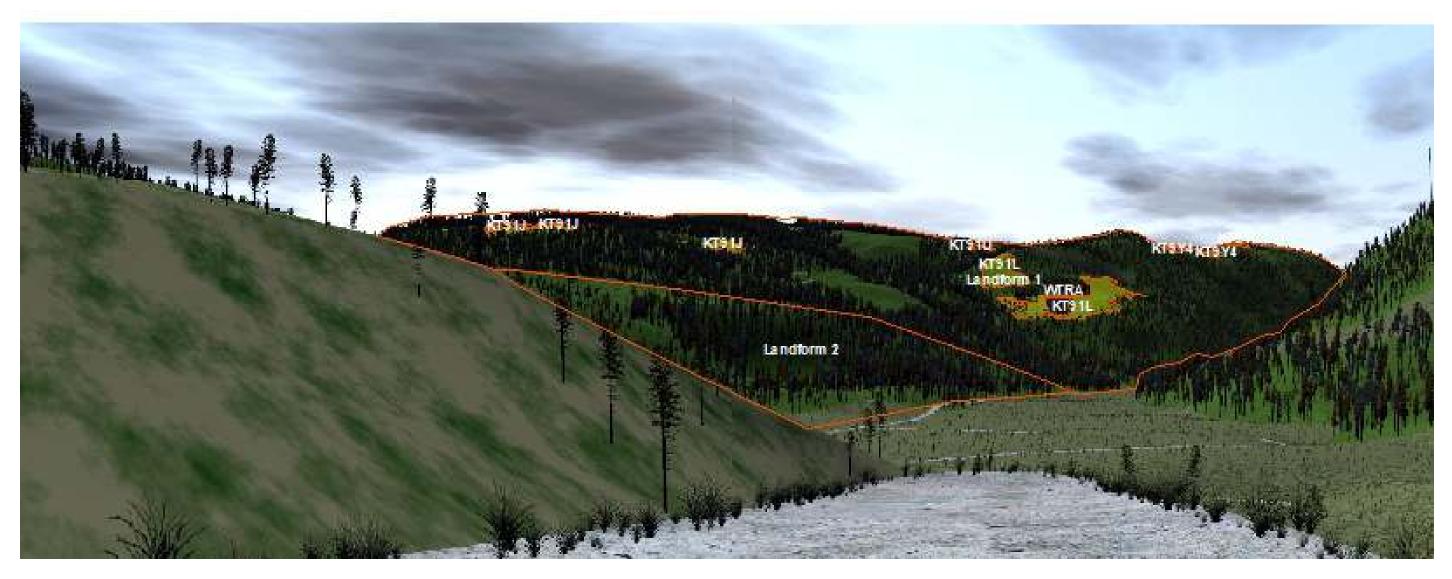


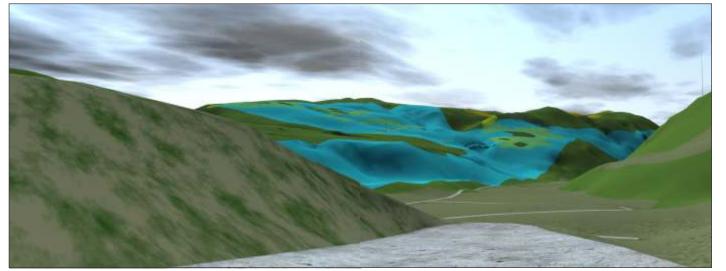


VSU 475 - VLI # 2150 - Partial Retention VQO

Viewpoint 7 Simulation (top-end of Prospect Drive)





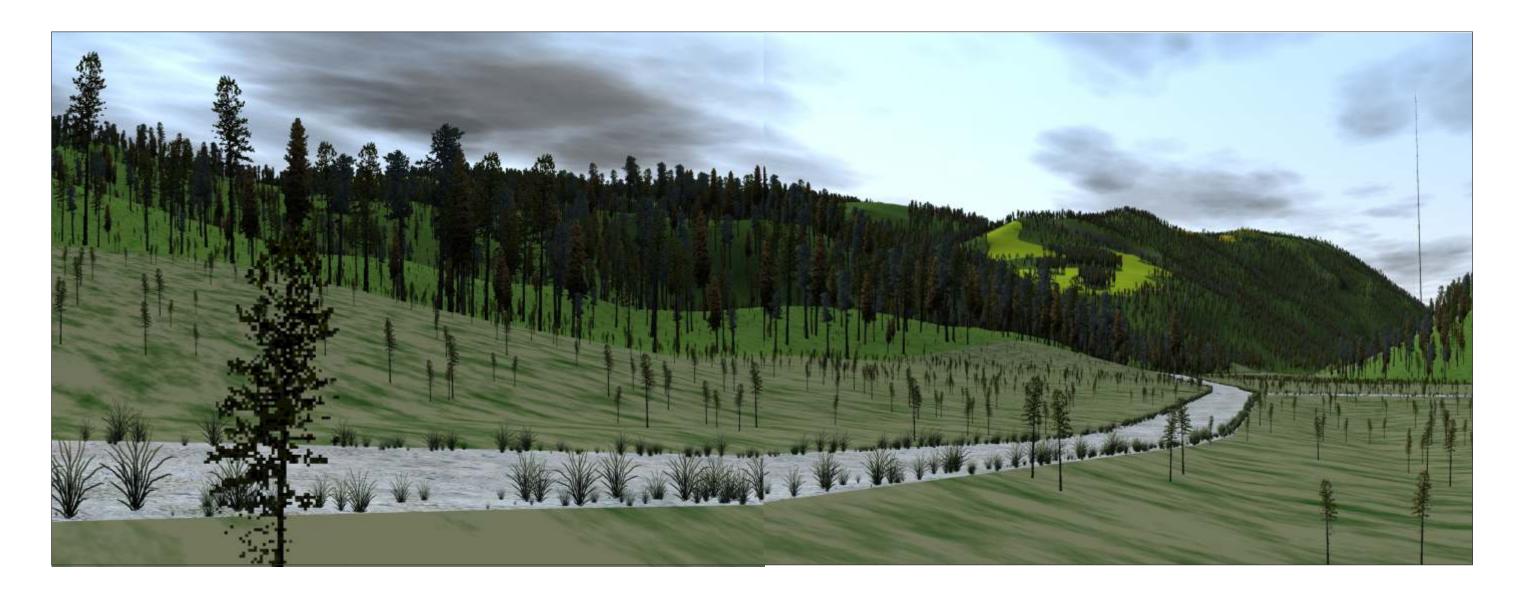


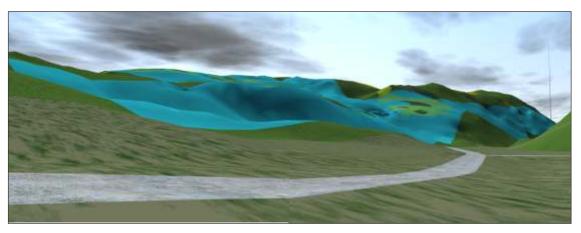
VSU 475 - VLI # 215	0 - Partial Retention VQO

Percent Alteration Landform 1 - Ketchan 2023					
Name	AREA2		% Alt		
Landform 1	12992	826406.00			
KT91L	1483	355149.91	1.14%		
KT91L	3750	630694.28	2.89%		
WTRA (deduct)	680	056986.05	-0.52%		
КТ91U	82	255858.01	0.06%		
КТ9Ү4	133	352952.96	0.10%		
КТ9Ү4	108	804405.49	0.08%		
КТ91V	90	027601.26	0.07%		
КТ91Ј	313	318417.90	0.24%		
КТ91Ј	564	450216.79	0.43%		
Sum Alt	7212	252282.65	4.51%		
Landform 2	56734	437264.09			

# Viewpoint 7 Percent Alteration (top-end of Prospect Drive)



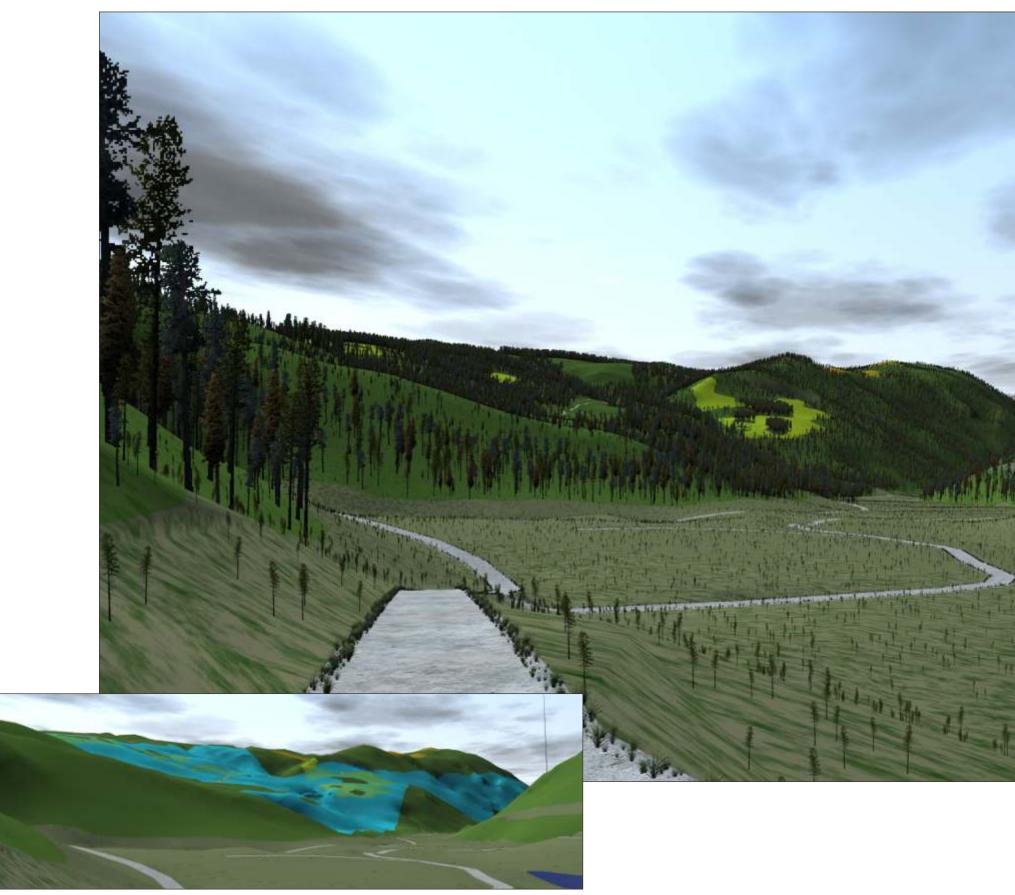




VSU 475 - VLI # 2150 - Partial Retention VQO

Viewpoint 8 Simulation (Summers Creek Road)





VSU 475 - VLI # 2150 - Partial Retention VQO

Viewpoint 9 Simulation (North end of Summers Creek Road)





