



A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:		Tenure (type/no): B40/8021 Section: 01 Road Name: RIALTO CREEK - ONE Road Status: Maintenance Other Section(s): Inspection Date (yyyy/mm/dd hh:mm): 2010/07/08 15:45 Regional Inspection: <input type="checkbox"/>		Amend #:
	Inspection Method		Area Inspected		
B	Ocular: <input checked="" type="checkbox"/> Recce: <input checked="" type="checkbox"/> Detailed Survey: <input type="checkbox"/> Admin/Office: <input type="checkbox"/>	Roads/Trails: Partial Location Inspected: drove as far as the 21km sign board - current road activity appears to be lower down the road system			
	Activity Status				
C	Road/Trail Construction N/A Re-vegetation N/A Permanent Deactivation N/A Temporary Deactivation N/A	Semi-permanent Deactivation N/A Road Maintenance Active Other N/A if "Other", please specify			
	Comments about status (length constructed): Safety concern re: missing/ broken signage - 17 km sign broken and on ground, 10km sign missing, 9km sign missing but pole is there, 8km sign is broken - # only visible travelling down not up, 7km sign broken and barely attached - # only visible travelling down, not up, 6km sign missing - pole still in place, 5km marker OK, 4km marker missing - sign indicating radio assisted road w/ freq. #, shot up and laying on ground, 3km marker OK, 2km marker missing, 1km sign missing - pole still there. Discussed w/ s.22 July 15, 2010 - they were aware of the issue and have signs ordered already. Appears to be a chronic issue w/ signs being shot at.				
Comments about weather conditions, snow depth: sunny and hot					
Compliance Summary					
E	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)		Received by: s.22 Signature: X (Signing does not imply agreement with findings)		
	Attachment Description: Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/> Checklist: Other:		Delivery Method: Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/>		
File # 11360-20/RUP 8021.01 File #					



 BRITISH COLUMBIA 		ROAD INSPECTION REPORT		ID: 242636 X-Ref: IDIR\WHOLOBOF 2010/07/08 15:45:00																																
A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure (type/no): B40/8021 Section: 01 Road Name: RIALTO CREEK - ONE Road Status: Maintenance Other Section(s): Inspection Date (yyyy/mm/dd hh:mm): 2010/07/08 15:45 Regional Inspection: <input type="checkbox"/>	Amend #:																																	
	<table border="1"> <thead> <tr> <th>D</th> <th>General Requirement</th> <th>Compliance Status</th> </tr> </thead> <tbody> <tr><td>1</td><td>Road/trail/landing construction (% ,quality,location)</td><td>Not Inspected</td></tr> <tr><td>2</td><td>Riparian management (debris mgmt., crossings etc.)</td><td>Not Inspected</td></tr> <tr><td>3</td><td>Forest health/protection (piling/FFPSR/etc.</td><td>Not Inspected</td></tr> <tr><td>4</td><td>Road/Trail maintenance (water mgmt., integrity)</td><td>Not Inspected</td></tr> <tr><td>5</td><td>Road/trail use (gates, etc.)</td><td>Not Inspected</td></tr> <tr><td>6</td><td>Revenue Management (utilization, marking etc.)</td><td>Not Inspected</td></tr> <tr><td>7</td><td>Public safety/safe practices (signage,danger trees, etc.)</td><td>No - Alleged Non-Compliance</td></tr> <tr><td>8</td><td>Site deactivation</td><td>Not Inspected</td></tr> <tr><td>9</td><td>Site rehabilitation</td><td>Not Inspected</td></tr> <tr><td>10</td><td>Other Plan/Prescription requirements</td><td>Not Inspected</td></tr> </tbody> </table>				D	General Requirement	Compliance Status	1	Road/trail/landing construction (% ,quality,location)	Not Inspected	2	Riparian management (debris mgmt., crossings etc.)	Not Inspected	3	Forest health/protection (piling/FFPSR/etc.	Not Inspected	4	Road/Trail maintenance (water mgmt., integrity)	Not Inspected	5	Road/trail use (gates, etc.)	Not Inspected	6	Revenue Management (utilization, marking etc.)	Not Inspected	7	Public safety/safe practices (signage,danger trees, etc.)	No - Alleged Non-Compliance	8	Site deactivation	Not Inspected	9	Site rehabilitation	Not Inspected	10	Other Plan/Prescription requirements
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I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:				Tenure (type/no): B40/8021 Amend #: Section: 01 Road Name: RIALTO CREEK - ONE Road Status: Maintenance Other Section(s): Inspection Date (yyyy/mm/dd hh:mm): 2010/07/08 15:45 Regional Inspection: <input type="checkbox"/>				
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J,K	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate
	7	A	Compliance Action	Compliance Notice	2010/07/08	Forest Planning & Practices Regulation (FRPA) 79 (6)(c)			

Comment/Notice:
 Please ensure deficient signage as listed on page 1 is re-established before July 30, 2010.
 Licensee was aware of the problem and has signs on order (discussed w/ s.22 July 15, 2010).

L	Inspector: Warren Holoboff Signature: X <small>(I certify that this inspection conforms to Ministry of Forests' compliance procedures)</small>		Received by: s.22 Signature: X <small>(Signing does not imply agreement with findings)</small>	
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 BRITISH COLUMBIA 		SILVICULTURE INSPECTION REPORT		ID: 243721 X-Ref: IDIR\WHOLOBOF 2010/08/12 00:00:00
A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 28/4 Opening #: 82E 050 0.0-35 Inspection Date (yyyy/mm/dd hh:mm): 2010/08/12 0:00 Gross (ha): 79.7 NAR (ha): 76.6 Location: FB80284 Regional Inspection: <input type="checkbox"/>		
	Inspection Method	Area Inspected	Inspection Sub-Type	
B	Ocular: <input type="checkbox"/> Recce: <input type="checkbox"/> Detailed Survey: <input type="checkbox"/> Admin/Office: <input checked="" type="checkbox"/>	Cutblock Area: Partial Location (described by SU or location): only office review	Regeneration: <input type="checkbox"/> Free Growing: <input type="checkbox"/> Other: <input checked="" type="checkbox"/>	
C	Block Status Comments (Note comments about SU, Block or Activity status if different than ISIS summary): further to Kevin Vaters' field review which indicated compliance - this only applies to seedlot transfer issues where there are some trivial non-compliances			
Compliance Summary				
D	General Requirement		Compliance Status	
	1	Post harvest (leave trees, roads, hazard abatement, etc.)	Not Inspected	
	2	Riparian Management (treatments, etc.)	Not Inspected	
	3	Soil conservation (disturbance/displacement, etc.)	Not Inspected	
	4	Forest health/protection (crop health, FFPSR, etc.)	Not Inspected	
	5	Stocking requirements (#/ha-min/max, spp., height, seedlot transf., species, density, etc.)	No - Alleged Non-Compliance	
	6	Other requirements (plan, prescription, reporting etc.)	Not Inspected	
	7	Plan/Prescription suitable (amendments, area etc.)	Not Inspected	
	8	Recommend FG declaration acceptance	Not Inspected	
Compliance Summary Comments: per e-mail of Aug 16/10 from s.22 , it appears there may be some trivial non-compliance. SL 42060 - my info. shows about 5m out of elevation limit w/ +/- 800 total trees planted. s.22 indicated <0.5 ha. affected with likely <50 trees as it was a mix spp. fill-plant. SL's 35069 and 39287 could be out by 20m with a total of +/- 4800 trees planted. Again as it was a low density, mix spp., fill-plant s.22 estimated <400 trees affected.				
E	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)		
	Attachment Description: Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/> Checklist: Other:	Delivery Method: Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/>		
File # 18750-20/A20194, CP28 block 4 File #				

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 28/4 Opening #: 82E 050 0.0-35 Inspection Date (yyyy/mm/dd hh:mm): 2010/08/12 0:00 Gross (ha): 79.7 NAR (ha): 76.6 Location: FB80284 Regional Inspection: <input type="checkbox"/>
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J,K	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate
	5	A	Compliance Action	Compliance Notice	2001/05/04	FPC of BC Act 70 (4)(C)			

Comment/Notice:

per e-mail of Aug 16/10 from s.22 , it appears there may be some trivial non-compliance.

SL 42060 - my info. shows about 5m out of elevation limit w/ +/- 800 total trees planted. s.22 indicated <0.5 ha. affected with likely <50 trees as it was a low-density, mix spp., fill-plant.

SL's 35069 and 39287 could be out by 20m with a total of +/- 4800 total trees planted. Again as it was a low density, mix spp., fill-plant ..s.22 estimated <400 trees affected.

Based on past remediation orders, licensee typically made to hold declaration until LFG.....this is the situation for the block in question. Consistent w/ FPC Bulletin 26, variance less than 50m and <1000 trees considered trivial NC.

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

Part 1 Page 6 Page 1 of 2
FNP-2013-00342
Report ID: CIMS-RPT-047

ALLEGED NON COMPLIANCE SUMMARY

ID: 272242

X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 36/2 Opening #: 82E 050 0.0-55 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 20.4 NAR (ha): 15.4 Location: DEER CREEK Regional Inspection: <input type="checkbox"/>
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J,K	General Req # 5	Row A	Action Taken Compliance Action	Compliance Action Type Compliance Notice	Est. Incident Date 2013/01/22	Act/Reg Section FPC of BC Act 70 (4)(E)	Warning Ticket #	Issued To	Licence Plate									
Comment/Notice: Stocking standards not met (data in RESULTS forest cover 50-75 st/ha versus 200 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.																		
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"> General Req # 6 </td> <td style="width:5%;"> Row A </td> <td style="width:10%;"> Action Taken Compliance Action </td> <td style="width:10%;"> Compliance Action Type Compliance Notice </td> <td style="width:10%;"> Est. Incident Date 2013/01/22 </td> <td style="width:10%;"> Act/Reg Section Forest Planning & Practices Regulation (FRPA) 86 (3)(d) </td> <td style="width:10%;"> Warning Ticket # </td> <td style="width:10%;"> Issued To </td> <td style="width:10%;"> Licence Plate </td> </tr> </table>										General Req # 6	Row A	Action Taken Compliance Action	Compliance Action Type Compliance Notice	Est. Incident Date 2013/01/22	Act/Reg Section Forest Planning & Practices Regulation (FRPA) 86 (3)(d)	Warning Ticket #	Issued To	Licence Plate
General Req # 6	Row A	Action Taken Compliance Action	Compliance Action Type Compliance Notice	Est. Incident Date 2013/01/22	Act/Reg Section Forest Planning & Practices Regulation (FRPA) 86 (3)(d)	Warning Ticket #	Issued To	Licence Plate										
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"> General Req # 8 </td> <td style="width:5%;"> Row A </td> <td style="width:10%;"> Action Taken Compliance Action </td> <td style="width:10%;"> Compliance Action Type Compliance Notice </td> <td style="width:10%;"> Est. Incident Date 2013/01/22 </td> <td style="width:10%;"> Act/Reg Section FPC of BC Act 70 (4)(E) </td> <td style="width:10%;"> Warning Ticket # </td> <td style="width:10%;"> Issued To </td> <td style="width:10%;"> Licence Plate </td> </tr> </table>										General Req # 8	Row A	Action Taken Compliance Action	Compliance Action Type Compliance Notice	Est. Incident Date 2013/01/22	Act/Reg Section FPC of BC Act 70 (4)(E)	Warning Ticket #	Issued To	Licence Plate
General Req # 8	Row A	Action Taken Compliance Action	Compliance Action Type Compliance Notice	Est. Incident Date 2013/01/22	Act/Reg Section FPC of BC Act 70 (4)(E)	Warning Ticket #	Issued To	Licence Plate										
Comment/Notice: Stocking standards not met (data in RESULTS forest cover 50-75 st/ha versus 200 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.																		

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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Part 1 Page 8 Page 1 of 2
FNP-2013-00342
Report ID: CIMS-RPT-047

ALLEGED NON COMPLIANCE SUMMARY

ID: 272249

X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 36/3 Opening #: 82E 050 0.0-56 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 21.1 NAR (ha): 16.9 Location: DOE CREEK Regional Inspection: <input type="checkbox"/>
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J,K	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate
	5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									
	6	A	Compliance Action	Compliance Notice	2013/01/22	Forest Planning & Practices Regulation (FRPA) 86 (3)(d)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met. Also, must include spatial (forest cover map) update if FG met.									
	8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:		Tenure: A01/A20194 CP/Block: 35/5 Opening #: 82F 031 0.0-99 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 37.7 NAR (ha): 29.5 Location: FB80355 Regional Inspection: <input type="checkbox"/>	
	Inspection Method	Area Inspected		Inspection Sub-Type
B	Ocular: <input type="checkbox"/> Recce: <input type="checkbox"/> Detailed Survey: <input type="checkbox"/> Admin/Office: <input checked="" type="checkbox"/>	Cutblock Area: Partial Location (described by SU or location): only office reviewed		Regeneration: <input type="checkbox"/> Free Growing: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>
C	Block Status Comments (Note comments about SU, Block or Activity status if different than ISIS summary):			
Compliance Summary				
D	General Requirement		Compliance Status	
	1 Post harvest (leave trees, roads, hazard abatement, etc.)		Not Inspected	
	2 Riparian Management (treatments, etc.)		Not Inspected	
	3 Soil conservation (disturbance/displacement, etc.)		Not Inspected	
	4 Forest health/protection (crop health, FFPSR, etc.)		Not Inspected	
	5 Stocking requirements (#/ha-min/max, spp., height, seedlot transf., species, density, etc.)		No - Alleged Non-Compliance	
	6 Other requirements (plan, prescription, reporting etc.)		No - Alleged Non-Compliance	
	7 Plan/Prescription suitable (amendments, area etc.)		Not Inspected	
	8 Recommend FG declaration acceptance		No - Alleged Non-Compliance	
Compliance Summary Comments: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met. In addition, there is no spatial (forest cover map) update.				
E	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)		Received by: s.22 Signature: X (Signing does not imply agreement with findings)	
	Attachment Description: Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/> Checklist: Other:		Delivery Method: Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/>	
File # 18750-20/A20194, CP35, blk 5 File #				

ALLEGED NON COMPLIANCE SUMMARY

ID: 272252

X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 35/5 Opening #: 82F 031 0.0-99 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 37.7 NAR (ha): 29.5 Location: FB80355 Regional Inspection: <input type="checkbox"/>
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J,K	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate
	5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4 and polygons have no correlation to standards units), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									
	6	A	Compliance Action	Compliance Notice	2013/01/22	Forest Planning & Practices Regulation (FRPA) 86 (3)(d)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4 and polygons have no correlation to standards units), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met. Also, must include spatial (forest cover map) update if FG met.									
	8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4 and polygons have no correlation to standards units), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:		Tenure: A01/A20194 CP/Block: 35/7 Opening #: 82F 031 0.0-106 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 71.4 NAR (ha): 61.7 Location: FB80357 Regional Inspection: <input type="checkbox"/>	
Inspection Method		Area Inspected		Inspection Sub-Type
B	Ocular: <input type="checkbox"/> Recce: <input type="checkbox"/> Detailed Survey: <input type="checkbox"/> Admin/Office: <input checked="" type="checkbox"/>	Cutblock Area: Partial Location (described by SU or location): only office reviewed		Regeneration: <input type="checkbox"/> Free Growing: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>
C	Block Status Comments (Note comments about SU, Block or Activity status if different than ISIS summary):			
Compliance Summary				
D	General Requirement		Compliance Status	
	1 Post harvest (leave trees, roads, hazard abatement, etc.)		Not Inspected	
	2 Riparian Management (treatments, etc.)		Not Inspected	
	3 Soil conservation (disturbance/displacement, etc.)		Not Inspected	
	4 Forest health/protection (crop health, FFPSR, etc.)		Not Inspected	
	5 Stocking requirements (#/ha-min/max, spp., height, seedlot transf., species, density, etc.)		No - Alleged Non-Compliance	
	6 Other requirements (plan, prescription, reporting etc.)		No - Alleged Non-Compliance	
	7 Plan/Prescription suitable (amendments, area etc.)		Not Inspected	
	8 Recommend FG declaration acceptance		No - Alleged Non-Compliance	
Compliance Summary Comments: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met. In addition, there is no spatial (forest cover map) update.				
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File # 18750-20/A20194, CP35, blk 7 File #				

ALLEGED NON COMPLIANCE SUMMARY

ID: 272256

X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 35/7 Opening #: 82F 031 0.0-106 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 71.4 NAR (ha): 61.7 Location: FB80357 Regional Inspection: <input type="checkbox"/>
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J,K	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">General Req #</th> <th style="width:5%;">Row</th> <th style="width:15%;">Action Taken</th> <th style="width:15%;">Compliance Action Type</th> <th style="width:15%;">Est. Incident Date</th> <th style="width:15%;">Act/Reg Section</th> <th style="width:10%;">Warning Ticket #</th> <th style="width:10%;">Issued To</th> <th style="width:10%;">Licence Plate</th> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">A</td> <td style="text-align: center;">Compliance Action</td> <td style="text-align: center;">Compliance Notice</td> <td style="text-align: center;">2013/01/22</td> <td style="text-align: center;">FPC of BC Act 70 (4)(E)</td> <td></td> <td></td> <td></td> </tr> </table>	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate	5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)				<p>Comment/Notice:</p> <p>Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met.</p>
General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate												
5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)															
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">General Req #</th> <th style="width:5%;">Row</th> <th style="width:15%;">Action Taken</th> <th style="width:15%;">Compliance Action Type</th> <th style="width:15%;">Est. Incident Date</th> <th style="width:15%;">Act/Reg Section</th> <th style="width:10%;">Warning Ticket #</th> <th style="width:10%;">Issued To</th> <th style="width:10%;">Licence Plate</th> </tr> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">A</td> <td style="text-align: center;">Compliance Action</td> <td style="text-align: center;">Compliance Notice</td> <td style="text-align: center;">2013/01/22</td> <td style="text-align: center;">Forest Planning & Practices Regulation (FRPA) 86 (3)(d)</td> <td></td> <td></td> <td></td> </tr> </table>	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate	6	A	Compliance Action	Compliance Notice	2013/01/22	Forest Planning & Practices Regulation (FRPA) 86 (3)(d)				<p>Comment/Notice:</p> <p>Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met.</p> <p>In addition, there is no spatial (forest cover map) update.</p>
General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate												
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	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">General Req #</th> <th style="width:5%;">Row</th> <th style="width:15%;">Action Taken</th> <th style="width:15%;">Compliance Action Type</th> <th style="width:15%;">Est. Incident Date</th> <th style="width:15%;">Act/Reg Section</th> <th style="width:10%;">Warning Ticket #</th> <th style="width:10%;">Issued To</th> <th style="width:10%;">Licence Plate</th> </tr> <tr> <td style="text-align: center;">8</td> <td style="text-align: center;">A</td> <td style="text-align: center;">Compliance Action</td> <td style="text-align: center;">Compliance Notice</td> <td style="text-align: center;">2013/01/22</td> <td style="text-align: center;">FPC of BC Act 70 (4)(E)</td> <td></td> <td></td> <td></td> </tr> </table>	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate	8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)				<p>Comment/Notice:</p> <p>Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met.</p>
General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate												
8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)															

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:		Tenure: A01/A20194 CP/Block: 35/2 Opening #: 82F 031 0.0-133 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 13.2 NAR (ha): 6.6 Location: FB80352 Regional Inspection: <input type="checkbox"/>	
	Inspection Method	Area Inspected		Inspection Sub-Type
B	Ocular: <input type="checkbox"/> Recce: <input type="checkbox"/> Detailed Survey: <input type="checkbox"/> Admin/Office: <input checked="" type="checkbox"/>	Cutblock Area: Partial Location (described by SU or location): only office reviewed		Regeneration: <input type="checkbox"/> Free Growing: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>
C	Block Status Comments (Note comments about SU, Block or Activity status if different than ISIS summary):			
Compliance Summary				
D	General Requirement		Compliance Status	
	1 Post harvest (leave trees, roads, hazard abatement, etc.)		Not Inspected	
	2 Riparian Management (treatments, etc.)		Not Inspected	
	3 Soil conservation (disturbance/displacement, etc.)		Not Inspected	
	4 Forest health/protection (crop health, FFPSR, etc.)		Not Inspected	
	5 Stocking requirements (#/ha-min/max, spp., height, seedlot transf., species, density, etc.)		No - Alleged Non-Compliance	
	6 Other requirements (plan, prescription, reporting etc.)		No - Alleged Non-Compliance	
	7 Plan/Prescription suitable (amendments, area etc.)		Not Inspected	
	8 Recommend FG declaration acceptance		No - Alleged Non-Compliance	
Compliance Summary Comments: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met. In addition, there is no spatial (forest cover map) update.				
E	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)		Received by: s.22 Signature: X (Signing does not imply agreement with findings)	
	Attachment Description: Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/> Checklist: Other:		Delivery Method: Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/>	
File # 18750-20/A20194, CP35, blk 7 File #				

ALLEGED NON COMPLIANCE SUMMARY



ID: 272263

X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 35/2 Opening #: 82F 031 0.0-133 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 13.2 NAR (ha): 6.6 Location: FB80352 Regional Inspection: <input type="checkbox"/>
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J,K	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate
	5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met.									
	6	A	Compliance Action	Compliance Notice	2013/01/22	Forest Planning & Practices Regulation (FRPA) 86 (3)(d)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met. In addition, there is no spatial (forest cover map) update.									
	8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 0 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met.									

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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 BRITISH COLUMBIA 		SILVICULTURE INSPECTION REPORT		ID: 272264 X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00
A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:		Tenure: A01/A20194 CP/Block: 35/3A Opening #: 82F 032 0.0-96 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 13.4 NAR (ha): 11.6 Location: FB80353A Regional Inspection: <input type="checkbox"/>	
	Inspection Method	Area Inspected	Inspection Sub-Type	
B	Ocular: <input type="checkbox"/> Recce: <input type="checkbox"/> Detailed Survey: <input type="checkbox"/> Admin/Office: <input checked="" type="checkbox"/>	Cutblock Area: Partial Location (described by SU or location): only office reviewed	Regeneration: <input type="checkbox"/> Free Growing: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
C	Block Status Comments (Note comments about SU, Block or Activity status if different than ISIS summary):			
Compliance Summary				
D	General Requirement		Compliance Status	
	1	Post harvest (leave trees, roads, hazard abatement, etc.)	Not Inspected	
	2	Riparian Management (treatments, etc.)	Not Inspected	
	3	Soil conservation (disturbance/displacement, etc.)	Not Inspected	
	4	Forest health/protection (crop health, FFPSR, etc.)	Not Inspected	
	5	Stocking requirements (#/ha-min/max, spp., height, seedlot transf., species, density, etc.)	No - Alleged Non-Compliance	
	6	Other requirements (plan, prescription, reporting etc.)	No - Alleged Non-Compliance	
	7	Plan/Prescription suitable (amendments, area etc.)	Not Inspected	
	8	Recommend FG declaration acceptance	No - Alleged Non-Compliance	
Compliance Summary Comments: Stocking standards not met (data in RESULTS forest cover shows 86 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met. In addition, there is no spatial (forest cover map) update.				
E	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)		Received by: s.22 Signature: X (Signing does not imply agreement with findings)	
	Attachment Description: Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/> Checklist: Other:		Delivery Method: Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/>	
File # 18750-20/A20194, CP35, blk 3A File #				

ALLEGED NON COMPLIANCE SUMMARY

ID: 272264

X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 35/3A Opening #: 82F 032 0.0-96 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 13.4 NAR (ha): 11.6 Location: FB80353A Regional Inspection: <input type="checkbox"/>
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J,K	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate
	5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 86 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									
	6	A	Compliance Action	Compliance Notice	2013/01/22	Forest Planning & Practices Regulation (FRPA) 86 (3)(d)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 86 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met. In addition, there is no spatial (forest cover map) update.									
	8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 86 st/ha versus 700 st/ ha min. required layer 4), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:		Tenure: A01/A20194 CP/Block: 25/4 Opening #: 82F 032 0.0-88 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 12.8 NAR (ha): 11.8 Location: FB80254 Regional Inspection: <input type="checkbox"/>	
	Inspection Method	Area Inspected		Inspection Sub-Type
B	Ocular: <input type="checkbox"/> Recce: <input type="checkbox"/> Detailed Survey: <input type="checkbox"/> Admin/Office: <input checked="" type="checkbox"/>	Cutblock Area: Partial Location (described by SU or location): only office reviewed		Regeneration: <input type="checkbox"/> Free Growing: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>
C	Block Status Comments (Note comments about SU, Block or Activity status if different than ISIS summary):			
Compliance Summary				
D	General Requirement		Compliance Status	
	1 Post harvest (leave trees, roads, hazard abatement, etc.)		Not Inspected	
	2 Riparian Management (treatments, etc.)		Not Inspected	
	3 Soil conservation (disturbance/displacement, etc.)		Not Inspected	
	4 Forest health/protection (crop health, FFPSR, etc.)		Not Inspected	
	5 Stocking requirements (#/ha-min/max, spp., height, seedlot transf., species, density, etc.)		No - Alleged Non-Compliance	
	6 Other requirements (plan, prescription, reporting etc.)		No - Alleged Non-Compliance	
	7 Plan/Prescription suitable (amendments, area etc.)		Not Inspected	
	8 Recommend FG declaration acceptance		No - Alleged Non-Compliance	
Compliance Summary Comments: Stocking standards not met (data in RESULTS forest cover shows 220 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met.				
E	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)		Received by: s.22 Signature: X (Signing does not imply agreement with findings)	
	Attachment Description: Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/> Checklist: Other:		Delivery Method: Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/>	
File # 18750-20/A20194, CP25, blk 4 File #				

ALLEGED NON COMPLIANCE SUMMARY

ID: 272277

X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 25/4 Opening #: 82F 032 0.0-88 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 12.8 NAR (ha): 11.8 Location: FB80254 Regional Inspection: <input type="checkbox"/>
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J,K	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate
	5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 220 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									
	6	A	Compliance Action	Compliance Notice	2013/01/22	Forest Planning & Practices Regulation (FRPA) 86 (3)(d)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 220 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									
	8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)			
Comment/Notice: Stocking standards not met (data in RESULTS forest cover shows 220 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.									

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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A	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:		Tenure: A01/A20194 CP/Block: 25/5 Opening #: 82F 032 0.0-89 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 23.0 NAR (ha): 22.0 Location: FB80255 Regional Inspection: <input type="checkbox"/>	
	Inspection Method	Area Inspected		Inspection Sub-Type
B	Ocular: <input type="checkbox"/> Recce: <input type="checkbox"/> Detailed Survey: <input type="checkbox"/> Admin/Office: <input checked="" type="checkbox"/>	Cutblock Area: Partial Location (described by SU or location): only office reviewed		Regeneration: <input type="checkbox"/> Free Growing: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>
C	Block Status Comments (Note comments about SU, Block or Activity status if different than ISIS summary):			
Compliance Summary				
D	General Requirement		Compliance Status	
	1 Post harvest (leave trees, roads, hazard abatement, etc.)		Not Inspected	
	2 Riparian Management (treatments, etc.)		Not Inspected	
	3 Soil conservation (disturbance/displacement, etc.)		Not Inspected	
	4 Forest health/protection (crop health, FFPSR, etc.)		Not Inspected	
	5 Stocking requirements (#/ha-min/max, spp., height, seedlot transf., species, density, etc.)		No - Alleged Non-Compliance	
	6 Other requirements (plan, prescription, reporting etc.)		No - Alleged Non-Compliance	
	7 Plan/Prescription suitable (amendments, area etc.)		Not Inspected	
	8 Recommend FG declaration acceptance		No - Alleged Non-Compliance	
Compliance Summary Comments: Stocking standards not met (data in RESULTS forest cover shows 219 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved. Need to clarify if data incorrect or standards not actually met.				
E	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)		Received by: s.22 Signature: X (Signing does not imply agreement with findings)	
	Attachment Description: Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/> Checklist: Other:		Delivery Method: Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/>	
File # 18750-20/A20194, CP25, blk 5 File #				

ALLEGED NON COMPLIANCE SUMMARY

ID: 272279

X-Ref: IDIR\WHOLOBOF 2013/04/17 00:00:00

I	Licensee: KALESNIKOFF LUMBER CO. LTD. BOX 3000 THRUMS BC V1N3L8 Operator/Contractor: In Attendance:	Tenure: A01/A20194 CP/Block: 25/5 Opening #: 82F 032 0.0-89 Inspection Date (yyyy/mm/dd hh:mm): 2013/04/17 0:00 Gross (ha): 23.0 NAR (ha): 22.0 Location: FB80255 Regional Inspection: <input type="checkbox"/>
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J,K	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">General Req #</th> <th style="width:5%;">Row</th> <th style="width:15%;">Action Taken</th> <th style="width:15%;">Compliance Action Type</th> <th style="width:15%;">Est. Incident Date</th> <th style="width:15%;">Act/Reg Section</th> <th style="width:10%;">Warning Ticket #</th> <th style="width:10%;">Issued To</th> <th style="width:10%;">Licence Plate</th> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">A</td> <td style="text-align: center;">Compliance Action</td> <td style="text-align: center;">Compliance Notice</td> <td style="text-align: center;">2013/01/22</td> <td style="text-align: center;">FPC of BC Act 70 (4)(E)</td> <td></td> <td></td> <td></td> </tr> </table>	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate	5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)				<p>Comment/Notice:</p> <p>Stocking standards not met (data in RESULTS forest cover shows 219 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved.</p> <p>Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.</p>
General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate												
5	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)															
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">General Req #</th> <th style="width:5%;">Row</th> <th style="width:15%;">Action Taken</th> <th style="width:15%;">Compliance Action Type</th> <th style="width:15%;">Est. Incident Date</th> <th style="width:15%;">Act/Reg Section</th> <th style="width:10%;">Warning Ticket #</th> <th style="width:10%;">Issued To</th> <th style="width:10%;">Licence Plate</th> </tr> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">A</td> <td style="text-align: center;">Compliance Action</td> <td style="text-align: center;">Compliance Notice</td> <td style="text-align: center;">2013/01/22</td> <td style="text-align: center;">Forest Planning & Practices Regulation (FRPA) 86 (3)(d)</td> <td></td> <td></td> <td></td> </tr> </table>	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate	6	A	Compliance Action	Compliance Notice	2013/01/22	Forest Planning & Practices Regulation (FRPA) 86 (3)(d)				<p>Comment/Notice:</p> <p>Stocking standards not met (data in RESULTS forest cover shows 219 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved.</p> <p>Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.</p>
General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate												
6	A	Compliance Action	Compliance Notice	2013/01/22	Forest Planning & Practices Regulation (FRPA) 86 (3)(d)															
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">General Req #</th> <th style="width:5%;">Row</th> <th style="width:15%;">Action Taken</th> <th style="width:15%;">Compliance Action Type</th> <th style="width:15%;">Est. Incident Date</th> <th style="width:15%;">Act/Reg Section</th> <th style="width:10%;">Warning Ticket #</th> <th style="width:10%;">Issued To</th> <th style="width:10%;">Licence Plate</th> </tr> <tr> <td style="text-align: center;">8</td> <td style="text-align: center;">A</td> <td style="text-align: center;">Compliance Action</td> <td style="text-align: center;">Compliance Notice</td> <td style="text-align: center;">2013/01/22</td> <td style="text-align: center;">FPC of BC Act 70 (4)(E)</td> <td></td> <td></td> <td></td> </tr> </table>	General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate	8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)				<p>Comment/Notice:</p> <p>Stocking standards not met (data in RESULTS forest cover shows 219 st/ha versus 300 st/ ha min. required layer 1), yet licensee has declared free-growing achieved.</p> <p>Ensure by current reporting deadline June 1, 2013, correct data if entered in error or withdraw declaration if standards not actually met.</p>
General Req #	Row	Action Taken	Compliance Action Type	Est. Incident Date	Act/Reg Section	Warning Ticket #	Issued To	Licence Plate												
8	A	Compliance Action	Compliance Notice	2013/01/22	FPC of BC Act 70 (4)(E)															

L	Inspector: Warren Holoboff Signature: X (I certify that this inspection conforms to Ministry of Forests' compliance procedures)	Received by: s.22 Signature: X (Signing does not imply agreement with findings)
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From: [Jaarsma, Amy D FLNR:EX](#)
To: [Upward, Katherine K FLNR:EX;](#)
Subject: A30172 CP023
Date: Tuesday, May 15, 2012 2:08:21 PM
Attachments: [A30172 CP023.pdf](#)

Logging and Silviculture costs

- Is this what you were looking for?

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~~~~~  
~~~~~  
~~~~~  
~~~~~  
~~~~~  
*Amy Jaarsma, RFT*

Tenures/Revenue Technician  
Selkirk Resource District - Nelson  
phone: (250) 825-1153  
fax: (250) 825-9657  
e-mail: [Amy.Jaarsma@gov.bc.ca](mailto:Amy.Jaarsma@gov.bc.ca)



Ministry of Forests and Range  
Interior Appraisal System  
Logging and Silviculture Cost  
Estimate

Page : 1 of 2  
Date/Time Printed : 2012-05-15 14:06:31  
User ID : AJAARSMA  
Database : PROD  
Report ID : IASR083

Timber Mark : FE6023

Appraisal Effective Date : 2003-06-01

OBSOLETE - Nelson Forest Region (RSI)  
Kootenay Lake Forest District

Licence : A30172  
Cutting Permit : 23  
Calculation Date : 2010-06-25

Kootenay Lake TSA Block C  
Total Volume : 60,966  
Expiry Date : 2010-09-30

Logging Trend Factor : 0.921  
Silviculture Trend Factor : 0.921  
Manufacturing Trend Factor : 1.000  
Stumpage Rate Effective Date : 2010-07-01

MVI Eligible Indicator : Y  
Adjust Quarterly Indicator : Y

| PHASE                                               | Subphase<br>Cost<br>( \$ / m3 ) | Phase<br>Total<br>( \$ / m3 ) |
|-----------------------------------------------------|---------------------------------|-------------------------------|
| <hr/>                                               |                                 |                               |
| DEVELOPMENT :                                       |                                 |                               |
| Tabulated                                           |                                 |                               |
| Culverts                                            | 0.00                            |                               |
| Roads                                               | 77,744.20                       |                               |
| Fencing and Cattle Guards                           | 0.00                            |                               |
| Allocated Development                               | 350,462.82                      |                               |
| Engineered Development                              | 400,311.34                      |                               |
|                                                     |                                 |                               |
| TREE TO TRUCK :                                     |                                 |                               |
| Ground Skidding (Clear Cut)                         |                                 |                               |
| Ground Skidding (Partial Cut)                       |                                 |                               |
| Overhead Cable Yarding Highlead & Grapple (Clear)   |                                 |                               |
| Overhead Cable Yarding Highlead & Grapple (Partial) |                                 |                               |
| Overhead Cable Yarding Skyline                      |                                 |                               |
| Helicopter Logging (Clear)                          |                                 | s.21                          |
| Helicopter Logging (Partial)                        |                                 |                               |
| Horse Logging                                       |                                 |                               |
| Specified Operation                                 |                                 |                               |
|                                                     |                                 |                               |
| LOG TRANSPORTATION :                                |                                 |                               |
| Hauling                                             |                                 |                               |
| Primary                                             | 9.86                            |                               |
| Secondary                                           | 0.00                            |                               |
| Water Transportation                                |                                 |                               |
| Special Transportation and Specified Operations     |                                 |                               |
| Road Management                                     |                                 |                               |
| Road Use                                            |                                 |                               |



Ministry of Forests and Range  
Interior Appraisal System  
Logging and Silviculture Cost  
Estimate

Page : 2 of 2  
Date/Time Printed : 2012-05-15 14:06:31  
User ID : AJAARSMA  
Database : PROD  
Report ID : IASR083

Timber Mark : FE6023

Appraisal Effective Date : 2003-06-01

PHASE

| Subphase<br>Cost<br>( \$ / m3 ) | Phase<br>Total<br>( \$ / m3 ) |
|---------------------------------|-------------------------------|
|                                 |                               |

ADMINISTRATION & OTHER :  
Overhead

Low Volume additive:

TOTAL LOGGING COST :

s.21

TOTAL TRENDLED LOGGING COST :

SILVICULTURE :  
Basic  
Specified

TOTAL TRENDLED SILVICULTURE COST :

End of Report





Selkirk Resource District  
DKL-29730

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**Appendix 1: Inspection Report**

| ID     | Inspector Name                                                         | Type                        | Inspection Date | Site                    | Client                      |
|--------|------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------|-----------------------------|
| 145638 | Justin Dexter, Shaun Chadburn                                          | Harvest                     | 2007-07-04      | A30172 23/8             | Kalesnikoff Lumber Co. Ltd. |
| 257885 | Katherine Upward,<br>Dr. Mike Curran,<br>Connie Herman,<br>Andy Cosens | General                     | 2011-09-22      | A30172 CP 23<br>Block 8 | Kalesnikoff Lumber Co. Ltd. |
| 257885 | Katherine Upward                                                       | Further Research<br>Closure | 2012-02-15      | A30172 CP 23<br>Block 8 | Kalesnikoff Lumber Co. Ltd. |

**Appendix 2: Evidence**

- 1.) Mike Curran, Phd - Report of Soil Disturbance Survey Report
- 2.) Tab Yellow  
Interview Notes with Kalesnikoff - 2012-02-23
- 3.) Tab Beige  
Interview Notes with s.15 – 2012-02-21
- 4.) Tab Pink  
Kalesnikoff Harvest Inspection Reports for Hloofkoff Logging 2009
- 5.) Tab Green  
Site Plan amendment #2.  
Silviculture Prescription
- 6.) Tab Blue  
Land Management Handbook Number 20 – ESSF wc4 pages 158-165



## Selkirk Resource District DKL-29730

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### Appendix 3: Maps & Photos

#### *List of Maps:*

| Number | Description                | Filename                           |
|--------|----------------------------|------------------------------------|
| 1      | Google Map of Plot Centers | Plot locations.jpg                 |
| 2      | Heli Photos                | KAL_A30171_CP23_8_heli photos.pdf  |
| 3      | Field Photos               | KAL_A30171_CP23_8_field photos.pdf |
| 4      | RESULTS Forest Cover Map   | RESULTS database                   |



**Appendix 4: Detailed Chronology**



Selkirk Resource District  
DKL-29730

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**Appendix 5: Letters**

| <b>Number</b> | <b>Description</b>   | <b>Receiver</b>                    | <b>Date</b>  | <b>Author</b>          |
|---------------|----------------------|------------------------------------|--------------|------------------------|
| 1             | Investigation Letter | Kalesnikoff Lumber<br>Company Ltd. | Feb 15, 2011 | FO Katherine<br>Upward |



Selkirk Resource District  
DKL-29730

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**Appendix 6: Email Correspondence**

| Number | Description                                                                  | Receiver                                         | Date             | Author              |
|--------|------------------------------------------------------------------------------|--------------------------------------------------|------------------|---------------------|
| 1      | Soil Disturbance Survey<br>(with notes from Will Burt,<br>Geomatics Analyst) | FO Upward, C&E<br>Kootenay<br>Boundary<br>Region | Sept 9, 2011     | Mike Curran         |
| 2      | CIMS Report                                                                  | Stan Hadikin                                     | Oct 19, 2011     | FO Katherine Upward |
| 3      | Information Request                                                          | FO Upward                                        | Jan 26, 2012     | s.15                |
| 4      | Investigation Letter, CIMS<br>completion report                              | Stan Hadikin                                     | Feb 15, 2012     | FO Upward           |
| 5      | Soil Disturbance Survey<br>Report                                            | FO Upward                                        | June 11,<br>2012 | Mike Curran         |

**Appendix 7 : Tenure Documentation**

| Number | Description                               |
|--------|-------------------------------------------|
| 1      | FTA A30172 Forest Licence Documentation   |
| 2      | FTA A30172 CP 23 Block 8 CP Documentation |
| 3      | FTA A30172 CP 23 Block 8 Harvest Dates    |
| 4      | GAS Appraisal Summary Report              |



Selkirk Resource District  
DKL-29730

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**Appendix 8: Relevant Legislation Excerpt**

- 1) FRPA 71 to 74(FRPA) with the Administration Remedy Regulations (FPC)
- 2) Forest Practices Code of BC Act Section 47 and definitions.
- 3) Timber Harvesting and Silviculture Practices Regulation Section 31 & 33





Selkirk Resource District  
DKL-29730

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**Appendix 9: Client ERA and CIMS History**



Selkirk Resource District  
DKL-29730

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**Appendix 10: Agreed Statement of Facts**

|                                                                                                                                            |                                                                                                                                                                                                   |                                                           |                                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| A                                                                                                                                          | <b>Licensee/ Tenure Holder:</b> KALESNIKOFF LUMBER CO. LTD.<br><br>BOX 3000<br>THRUMS BC V1N3L8                                                                                                   |                                                           | <b>Tenure (type/no):</b> /<br><br><b>Site ID:</b> FRP_KB<br><b>Inspection Date (yyyy/mm/dd 24:mm):</b> 2011/09/22 0:00<br><b>Regional Inspection:</b> <input type="checkbox"/><br><b>Location (optional):</b> A30172 CP 23 Block 8 |  |
|                                                                                                                                            | <b>Operator/Contractor:</b><br><b>In Attendance:</b> Katherine Upward, Mike Curran, Connie Herman, Andy Cosens                                                                                    |                                                           |                                                                                                                                                                                                                                    |  |
| <b>Inspection Method</b>                                                                                                                   |                                                                                                                                                                                                   | <b>Area Inspected</b>                                     |                                                                                                                                                                                                                                    |  |
| B                                                                                                                                          | <b>Ocular:</b> <input type="checkbox"/><br><b>Recce:</b> <input type="checkbox"/><br><b>Detailed Survey:</b> <input checked="" type="checkbox"/><br><b>Admin/Office:</b> <input type="checkbox"/> | <b>Area Inspected:</b><br><b>Location Inspected:</b> SU B |                                                                                                                                                                                                                                    |  |
|                                                                                                                                            |                                                                                                                                                                                                   |                                                           |                                                                                                                                                                                                                                    |  |
| C                                                                                                                                          | <b>Site or Activity Status:</b><br>A30172 CP 23 Block 8 SU B                                                                                                                                      |                                                           |                                                                                                                                                                                                                                    |  |
| D                                                                                                                                          | <b>Alleged Non-Compliance:</b> <input type="checkbox"/><br><b>Further Research:</b> <input checked="" type="checkbox"/>                                                                           |                                                           |                                                                                                                                                                                                                                    |  |
| <b>Compliance Summary Comments:</b><br>This SU appears to have exceeded the prescribed soil disturbance limits indicated in the Site Plan. |                                                                                                                                                                                                   |                                                           |                                                                                                                                                                                                                                    |  |
|                                                                                                                                            |                                                                                                                                                                                                   |                                                           |                                                                                                                                                                                                                                    |  |
| E                                                                                                                                          | <b>Inspector:</b> Katherine Upward<br><b>Signature: X</b><br><small>(I certify that this inspection conforms to Ministry of Forests' compliance procedures)</small>                               |                                                           | <b>Received by:</b> s.22<br><b>Signature: X</b><br><small>(Signing does not imply agreement with findings)</small>                                                                                                                 |  |
|                                                                                                                                            | <b>Attachment Description:</b><br>Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/><br>Checklist:<br>Other:                             |                                                           | <b>Delivery Method:</b><br>Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/>                                                        |  |
| File # File # 19500-40/A30172 CP23                                                                                                         |                                                                                                                                                                                                   |                                                           |                                                                                                                                                                                                                                    |  |

|          |                                                                                                                                          |                                                                                                                                                                                                             |
|----------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>F</b> | <b>Licensee/ Tenure Holder:</b><br><div style="text-align: right;">KALESNIKOFF LUMBER CO.<br/>LTD.</div><br>BOX 3000<br>THRUMS BC V1N3L8 | <b>Tenure (type/no):</b> /                                                                                                                                                                                  |
|          | <b>Operator/Contractor:</b><br><b>In Attendance:</b> Katherine Upward, Mike Curran, Connie Herman, Andy Cosens                           | <b>Site ID:</b> FRP_KB<br><b>Inspection Date</b> (yyyy/mm/dd 24:mm): 2011/09/22 0:00<br><b>Regional Inspection:</b> <input checked="" type="checkbox"/><br><b>Location</b> (optional): A30172 CP 23 Block 8 |

| <b>G</b>      | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:20%;">General Req #</th> <th style="width:10%;">Row</th> <th style="width:30%;">Reason</th> <th style="width:40%;">Comment</th> </tr> <tr> <td style="text-align: center;">2.00</td> <td style="text-align: center;">A</td> <td>More Information Required</td> <td>More information in required to determine the contravention and the details of the contravention. I will need to meet with Kalesnikoff to determine the facts around this block and the conventional logging in this SU. I will contact you for a meeting in the near future.</td> </tr> </table> | General Req #             | Row                                                                                                                                                                                                                                                                           | Reason | Comment | 2.00 | A | More Information Required | More information in required to determine the contravention and the details of the contravention. I will need to meet with Kalesnikoff to determine the facts around this block and the conventional logging in this SU. I will contact you for a meeting in the near future. |  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|------|---|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| General Req # | Row                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Reason                    | Comment                                                                                                                                                                                                                                                                       |        |         |      |   |                           |                                                                                                                                                                                                                                                                               |  |
| 2.00          | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | More Information Required | More information in required to determine the contravention and the details of the contravention. I will need to meet with Kalesnikoff to determine the facts around this block and the conventional logging in this SU. I will contact you for a meeting in the near future. |        |         |      |   |                           |                                                                                                                                                                                                                                                                               |  |

|          |                                                                                                                                                                     |                                                                                                                    |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>H</b> | <b>Inspector:</b> Katherine Upward<br><b>Signature: X</b><br><small>(I certify that this inspection conforms to Ministry of Forests' compliance procedures)</small> | <b>Received by:</b> s.22<br><b>Signature: X</b><br><small>(Signing does not imply agreement with findings)</small> |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

**Licensee/ Tenure Holder:** KALESNIKOFF LUMBER CO. LTD.  
 BOX 3000  
 THRUMS BC V1N3L8

**Tenure (type/no):** /  
**Site ID:** FRP\_KB  
**Inspection Date (yyyy/mm/dd 24:mm):** 2011/09/22 0:00  
**Location (optional):** A30172 CP 23 Block 8

**Operator/Contractor:**  
**In Attendance:** Katherine Upward, Mike Curran, Connie  
 Herman, Andy Cosens

## Completed Items

| Original | General Req # | Row | Action Taken | Summary Comment                                                                                                                                                                                                                                                               |
|----------|---------------|-----|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 2             | A   |              | More information in required to determine the contravention and the details of the contravention. I will need to meet with Kalesnikoff to determine the facts around this block and the conventional logging in this SU. I will contact you for a meeting in the near future. |

| # | Closure Date | Follow Up Action   | Compliance Action | Est. Incident Date | Act/Reg Section | Warning Ticket # | Issued To | Licence Plate |
|---|--------------|--------------------|-------------------|--------------------|-----------------|------------------|-----------|---------------|
| 1 | 2012/02/15   | Enforcement Action |                   |                    |                 |                  |           |               |

**Closure Comment:** Information presented to me by the licensee and Mike Curran, soil specialist, indicate that a contravention for exceeding the soil disturbance limits has occurred. I have now started an investigation on this matter.



File: 23060-40 – DKL-29730  
00001925 00

October 30, 2012

Kalesnikoff Lumber Co. Ltd  
PO Box 3000  
Thrums, B.C. V1N 3L8

Dear s.22

**Re: Contravention Determination and Notice of Penalty Levied under  
Section 71(2)(a) of the *Forest and range Practices Act* (FRPA).**

This is further to my letter dated July 4, 2012 and your opportunity to be heard conducted in the field on August 29, 2012 respecting the alleged contravention of section 47(1) of the *Forest Practices Code of British Columbia Act* (FPC Act). I have now made my determination in this matter, as described below.

#### Authority

As the licence holder, Kalesnikoff Lumber Company Ltd, began harvesting on the areas in question under a Forest Development Plan before and after the *Forest and Range Practices Act* ("FRPA") came into effect on January 30, 2004, then, pursuant to FRPA section 191(1) and 192(1), the licensee must comply with the requirements of the *Forest Practices Code of British Columbia Act* (the "FPC Act") and Regulations that pertain to those areas. Pursuant to Section 177.1(1) of FRPA, the Minister of Forests, Lands and Natural Resource Operations (the "Minister") may make determinations under section 71 of FRPA, for any alleged contraventions of the FPC Act and Regulations.

The Minister has delegated to me, under section 120.1(1) of FRPA the authority to make determinations with respect to administrative contraventions and penalties under FRPA section 71. Accordingly, I will make my determination in relation to the alleged contravention of section 47(1) of the FPC Act under FRPA section 71.

For contraventions of the FPC Act or Regulations, the maximum administrative penalties are as provided for under the FPC Act and Regulations.

Page 1 of 9

Ministry of Forests  
Lands and Natural  
Resource Operations

Kootenay Lake Forest District

1907 Ridgewood Road  
Nelson, B.C. V1L 6K1

Mailing Address:  
1907 Ridgewood Road  
Nelson, B.C. V1L 6K1

Tel: 250-825-1100  
Fax: 250-825-9657

## Legislation

### Forest Practice Code of British Columbia Act

#### ***47. Soil conservation: net area to be reforested***

47. (1) A person carrying out a forest practice on an area under a silviculture prescription must not exceed the maximum amount of soil disturbance within the net area to be reforested that is specified in the prescription.

(2) Despite subsection (1), a person carrying out timber harvesting operations may, in accordance with a silviculture prescription, temporarily exceed the maximum amount of soil disturbance within the net area to be reforested to the extent necessary to construct temporary access structures approved in the silviculture prescription if the silviculture prescription provides for soil rehabilitation measures to be carried out to those temporary access structures.

(5) A person who, for an area under a site plan prepared under section 21.1 or silviculture prescription, causes soil disturbance to occur in the net area to be reforested such that the maximum amount of soil disturbance within the net area to be reforested is exceeded must rehabilitate the area in accordance with the regulations and standards.

#### **Furthermore:**

#### **Limits on the amount of soil disturbance**

- 31 (1) In this section, “**sensitive soils**” means soils on an area that through a combination of climate, soil properties, site moisture conditions and site topography have
- (a) in the Interior, a very high soil compaction hazard, soil displacement hazard or soil erosion hazard, and
  - (b) on the Coast, a high or very high soil compaction hazard, soil displacement hazard or soil erosion hazard.
- (2) A holder of an agreement under the *Forest Act* must not cause the soil disturbance on the net area to be reforested within a standards unit to exceed
- (a) the applicable performance standard, or
  - (b) if there is no applicable performance standard,
    - (i) 5% of the area in the standards unit if the area has sensitive soils,
    - and
    - (ii) 10% of the area in the standards unit if the area does not have sensitive soils.
- (3) Despite subsection (2), a holder of an agreement under the *Forest Act* may exceed the soil disturbance limits under that subsection if
- (a) the harvesting on the area was to remove infected stumps, or

- (b) specific site rehabilitation or site preparation objectives for the area are contained in the forest development plan.
- (4) Despite subsection (2), a holder of an agreement under the *Forest Act* may temporarily exceed the soil disturbance limits referred to in that subsection if
  - (a) the extra disturbance
    - (i) is for the construction of temporary access structures or excavated or bladed trails, and
    - (ii) does not exceed 5% of the standards unit, and
  - (b) the holder rehabilitates the area to the extent necessary to bring the area back into compliance with the specified limits.

### **Rehabilitation of disturbed areas**

- 33 (1) A holder of an agreement under the *Forest Act* who is required to rehabilitate a disturbed portion of an area under section 46 (4) or 47 (5) or (7) of the Act must
- (a) restore the disturbed portion of the area to a productive state,
  - (b) reduce surface soil erosion in the area, and
  - (c) reasonably mitigate the impact of the forest practice that made the rehabilitation necessary on forest resources that are identified
    - (i) in higher level plans or operational plans, or
    - (ii) by the district manager, if the forest practice was exempted from the requirement of a logging plan or silviculture prescription or site plan.
- (2) For the purposes of section 49 (2) (d) of the Act, the district manager may exempt a person who is the holder of a site plan from the requirement to rehabilitate areas under section 46 (4) or 47 (5) to (7) of the Act if the district manager is satisfied that treating the area is unlikely to restore soil productivity on the area to a level acceptable to the district manager.

### **Issues**

The following issues are relevant to this case:

1. Has there been a contravention of section 47(1) of the FPC Act?
2. Do any of the defences of due diligence, mistake of fact or officially induced error apply?
3. If there has been a contravention, what level of penalty, if any, is appropriate?
4. Is a remediation order appropriate?

After considering all the evidence presented to me, and for the reasons presented below, it my determination that:



1. you did contravene section 47(1) of the FPC Act
2. none of the defenses apply; and
3. it is appropriate to levy a penalty in the amount of \$3,000.00 under section 71 (2) (a) (i) of the *Forest and Range Practices Act*, and
4. a remediation order is not required.

**Subject to the stay referred to below, the penalty must be paid by December 19th.** A separate invoice will be sent to you after all review and appeal periods have passed.

### **Summary of the evidence and findings of fact.**

Based on the evidence, I am satisfied that the following facts are **not** in dispute:

The following facts were confirmed within an “agreed statement of facts” document prepared and signed off between the Ministry investigator – Katherine Upward and the representative for Kalesnikoff Lumber Company Ltd – s.22 on August 13, 2012.

- Kalesnikoff Lumber Company Ltd is the Licensee of record for A30172.
- A30172 CP23 Block 8 subject to this case falls under the jurisdiction of the Forest Practices Code of British Columbia Act.
- Kalesnikoff Lumber Company Ltd signed a silviculture amendment prior to the harvest of a portion of SU B (now Sub amendment #2) allowing for conventional (ground based) harvest techniques to be used within that unit.
- Hlookoff Logging Ltd harvested SU B2 in the summer of 2008 using conventional harvest techniques.
- SU B2 has a 5% soil disturbance limit as prescribed in the silviculture prescription amendment#2.
- Hlookoff Logging completed deactivation and rehabilitation on the block post harvest in 2008.
- Kalesnikoff Lumber Company Ltd exceeded the maximum allowable soil disturbance of 5% after rehabilitation had occurred.

**With respect to the facts that are in dispute, Ministry staff presented the following evidence (in summary):**

- A soil disturbance survey conducted on September 22, 2011 by Ministry staff determined a 19.2% soil disturbance level (with a lower confidence level of 14.2%) due to loss of forest floor (very wide scalp) and “E Traffic” repeated machine traffic with compaction on the skid trails. The soil disturbance exceeded the specified 5% allowed in the silviculture prescription.

- The areas that were deemed as disturbed did not have any treatment to them and hence are not restored to a productive state. As per Mike Curran's report - risks associated from soil disturbance include effects on hydrology, productivity, potential for increased overland flow, erosion, sedimentation and invasive plant establishment.

**In turn, KLC presented the following evidence in the form of a handout which was presented at the Sept OTBH held on site at SU B. (in summary):**

In response to the Ministry survey results, KLC hired Timberland consultants to conduct an independent survey of the site which concluded a 12% disturbance limit as opposed to the Ministry's 19% survey result.

KLC questioned the Ministry survey results and disputed the methodology of the survey, specifically for soil compaction, stating that assuming compaction for all areas with more than two passes of a machine is inaccurate.

The following additional statements are direct quotes from your submission.

- 
- 
- 
- 
- 

s.15

Having regard to all of the foregoing evidence, I have made the following findings with respect to the facts in dispute:

- Although Kalesnikoff's survey differs from the Ministry survey by between 2% and 8%, both surveys indicate that the limit of 5% was exceeded by at least 7%. I am therefore satisfied that the evidence as presented regardless of the survey used support a finding of a contravention.

- On the question as to whether the soil disturbance was detrimental to the site or not other than the visible scarring on the landscape does not alter the allowable or measurable disturbance limits. Considering the trees planted on the site are only within their first 2 years of growth, I find that it is likely premature to judge whether impacts to site productivity have been affected or not. Research evidence has demonstrated however that trees growing on compacted soils may have reduced growth rates. The question of how detrimental the disturbance is, speaks to the gravity or magnitude of the contravention but does not nullify the contravention
- Do the facts support a finding of contravention if no defenses apply?

I conclude that the facts set out above support a finding of a contravention of section 47(1) of the FPC Act, provided the defenses set out in section 72 of the *Forest and Range Practices Act* do not apply. My reasons are as follow:

### **Do any defenses apply?**

You raised a defense of due diligence, which is one of the defenses provided for in section 72 of the *Forest and Range Practices Act*.

Specifically your written submission stated that KLC carried out their practices in a diligent manner and exercised reasonable care to minimize adverse impacts from their forest practices.

For this defense to apply I must determine if KLC did all that reasonably could have been done in the circumstances to prevent the contravention.

Site sensitivity for the area in question required careful planning for soil disturbance resulting in a 5% soil disturbance limit.

The use of low impact equipment to reduce compaction was only one factor in reducing disturbance. It is evident that the contractor on site, Hlookoff Logging Ltd, whom you indicate was primarily a cable harvester may not have had the experience in ground based techniques to adequately avoid the levels of disturbance that occurred. The random skidding technique and high frequency of skid trails that was employed to harvest and move timber off SU B could have been reduced to minimize disturbance.

Furthermore the original SP also references that when conventional harvesting is conducted that “designated trails” are required and “random skidding is not appropriate”.

Other harvest methods were available to KLC and more excavated trails with rehabilitation, or cable harvesting would likely have resulted in lower disturbance as is evidenced by adjacent operations.

I find that the diligence or standard of care claimed by KLC, did not go far enough to foresee or prevent the soil disturbance occurring; for these reasons, a defense of due diligence fails.

### **Is a penalty appropriate and if so how much?**

Under section 71(2)(a)(i) of the *Forest and Range Practices Act* I am authorized to impose a penalty of up to \$100,000 for a contravention of section 47(1) of the FPC Act. Alternatively, under section 71 (2) (a) (ii) of the *Forest and Range Practices Act*, I may refrain from levying a penalty if I consider that the contravention is trifling and that it is not in the public interest to do so.

Having regard to the facts of this case, I have decided the contravention is not trifling and that it is therefore appropriate to levy a deterrent penalty in the amount of \$3,000.00.

If I do levy a penalty, I must consider the following factors in section 71 (5) (a) (ii) of the *Forest and Range Practices Act*:

- (a) your previous contraventions, if any, of a similar nature;  
*There are none.*
- (b) the gravity and magnitude of the contravention;  
*The area affected is 9.7 hectares, however impacts to long term productivity was not definitive at the time of the determination. It may take years to conclude if tree growth has been affected by the disturbance levels (i.e. compacted soils).*
- (c) whether the contravention was repeated or continuous;  
*The violation is not repeated and limited to the standards unit in question; however, the disturbance level was never fully rehabilitated.*
- (d) whether the contravention was deliberate;  
*There is no indication that the contravention was deliberate.*
- (e) any economic benefit you derived from the contravention;  
*There is an economic benefit, estimated around \$2500 by choosing a lower cost harvest system.*
- (f) your cooperativeness and efforts to correct the contravention; and  
*KLC was fully cooperative in the investigation and although they have not made further efforts to rehabilitate the site, further machine traffic on the site is likely not recommended.*
- (g) any other considerations that the Lieutenant Governor in Council may have prescribed.  
*There are none.*

### **Determination does not forestall other actions that may be taken.**

Please note that my determinations under sections 71 and 74 do not relieve you from any other actions or proceedings that the government is authorized to take with respect to the contravention described above.

### **Opportunity for correcting this determination.**

For 15 days after making my determinations under sections 71 and 74, I am authorized under section 79 of the *Forest and Range Practices Act* to correct certain types of obvious errors or omissions. I may do this on my own initiative or at your request. If you think there are valid reasons to correct the determination, you may contact me at (250) 825 1101 within this 15 day period.

### **Opportunities for review and appeal.**

If you have new information that was not available at the time I made this determination, you may request a review of my determination on the basis of this new information. A request for such review must be in writing, must be signed by you, or on your behalf, and must contain:

- (a) your name and address; and the name of the person, if any, making the request on your behalf;
- (b) the address for serving a document to you or the person acting on your behalf;
- (c) the new evidence that was not available at the time this determination was made; and
- (d) a statement of the relief requested.

This request must be directed to me, at 1907 Ridgewood Road, Nelson, B.C, V1L 6K1 and I must receive it ***no later than three weeks*** after the date this notice of determination is given or delivered to you. If you request a review, you may appeal a decision made after the completion of the review to the Forest Appeals Commission.

The provisions governing reviews are set out in section 80 of the *Forest and Range Practices Act* and in the Administrative Review and Appeal Procedure Regulation. Please note the **3 week time limit** for requesting a review.

Alternatively, if you disagree with this determination, you may appeal directly to the Forest Appeals Commission.

The appeal request must be signed by you, or on your behalf, and must contain:

- a. your name and address; and the name of the person, if any, making the request on your behalf;
- b. the address for serving a document to you or the person acting on your behalf;
- c. the grounds for appeal; and
- d. a statement of the relief requested.

The Forest Appeals Commission must receive the appeal ***no later than three weeks*** after the date this notice of determination is given or delivered to you.

The provisions governing appeals are set out in sections 82 through 84 of the *Forest and Range Practices Act*, in sections 131 through 141 of the *Forest Practices Code of British Columbia Act*, and in the Administrative Review and Appeal Procedure Regulation. To initiate an appeal, you must deliver a notice of appeal, together with the requisite

supporting documents, to the Forest Appeals Commission. The address for the Forest Appeals Commission is:

The Registrar, Forest Appeals Commission  
PO Box 9425, Stn. Prov. Govt.  
Victoria, BC V8W 9V1

Please note the **3 week time limit** for delivering a notice of appeal.

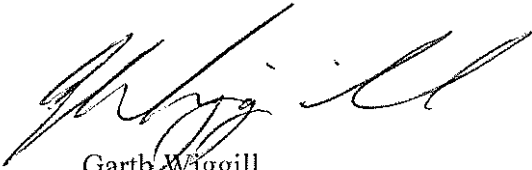
**Determination is stayed pending review or appeal.**

Under section 78 of the *Forest and Range Practices Act*, my contravention determination under sections 71 and 74, and my penalty determination under section 71, are stayed until you have no further right to have these determinations reviewed or appealed, after which time, they take immediate effect. As noted in the remediation order, this stay also applies to that order.

**Performance Record.**

As you are the holder of an agreement under the Forest Act, the administrative penalty and my determinations under sections 71 and 74 will become part of your performance record, pursuant to section 85 (2) of the *Forest and Range Practices Act*, subject to decisions made on review or appeal.

Yours truly,



Garth Wiggill  
District Manager  
Kootenay Lake Forest District

pc: Dan Barron, Compliance Leader, Kootenay Boundary Region  
Compliance and Enforcement Branch  
Forest Practices Board



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# HARVEST INSPECTION REPORT

ID: 145638

X-Ref: IDIRJDEXTER 2007/07/04 11:30:00

|                                                                                              |                                                                                                                                                                           |              |                                                                                                                                                                                                             |          |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| A                                                                                            | Licensee: KALESIKOFF LUMBER CO. LTD.<br>BOX 3000<br>THRUMS BC V1N3L8<br>Operator/Contractor: Kalesnikoff Lumber CO. Ltd<br>In Attendance: Justin Dexter<br>Shaun Chadburn |              | Tenure: A01/A30172 CP/Block: 23/8<br>Inspection Date (yyyy/mm/dd 24:mm): 2007/07/04 11:30<br>Gross (ha): 0.0 Net (ha): 28.5<br>Location: Schroeder Creek<br>Regional Inspection: <input type="checkbox"/>   |          |
|                                                                                              | Inspection Method                                                                                                                                                         |              | Area Inspected                                                                                                                                                                                              |          |
| B                                                                                            | Ocular: <input checked="" type="checkbox"/><br>Recce: <input type="checkbox"/><br>Detailed Survey: <input type="checkbox"/><br>Admin/Office: <input type="checkbox"/>     |              | Roads/Trails: <input type="checkbox"/><br>Location Inspected: <input type="checkbox"/><br>Cutblock Area: Partial<br>Location Inspected: Walked sections of SUB and reserve zones. Ocular inspection of SUA. |          |
|                                                                                              | Activity Status                                                                                                                                                           |              |                                                                                                                                                                                                             |          |
| C                                                                                            | Road/Trail Construction                                                                                                                                                   | Inactive     | Loading                                                                                                                                                                                                     | Inactive |
|                                                                                              | Deactivation/Rehabilitation                                                                                                                                               | Inactive     | Falling                                                                                                                                                                                                     | Inactive |
|                                                                                              | Waste Assessment                                                                                                                                                          | None to Date | Other                                                                                                                                                                                                       | N/A      |
|                                                                                              | Yarding/Forwarding                                                                                                                                                        | Inactive     | Hazard Abatement                                                                                                                                                                                            | N/A      |
| if "Other", please specify                                                                   |                                                                                                                                                                           |              |                                                                                                                                                                                                             |          |
| Comments about Status:<br>Block has not been completed. It is slated for completion in 2007. |                                                                                                                                                                           |              |                                                                                                                                                                                                             |          |
| Comments about weather conditions:<br>Sunny, hot                                             |                                                                                                                                                                           |              |                                                                                                                                                                                                             |          |
| Compliance Summary                                                                           |                                                                                                                                                                           |              |                                                                                                                                                                                                             |          |
| (Empty space for compliance summary)                                                         |                                                                                                                                                                           |              |                                                                                                                                                                                                             |          |
| E                                                                                            | Inspector: Justin Dexter<br>Signature: X<br>(I certify that this inspection conforms to Ministry of Forests' compliance procedures)                                       |              | Received by: s.22<br>Signature: X<br>(Signing does not imply agreement with findings)                                                                                                                       |          |
|                                                                                              | Attachment Description:<br>Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/><br>Checklist:<br>Other:            |              | Delivery Method:<br>Email: <input type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input checked="" type="checkbox"/> Hand Delivered: <input type="checkbox"/>                                        |          |
| File # 19500-40/A30172 CP 23/8 File #                                                        |                                                                                                                                                                           |              |                                                                                                                                                                                                             |          |

|  <b>BRITISH COLUMBIA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                | <b>HARVEST INSPECTION REPORT</b> |                                                                                                                                                                                                                                                                | ID: 145638<br>X-Ref: iDIRJDEXTER 2007/07/04 11:30:00 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Licensee:</b> KALESIKOFF LUMBER CO. LTD.<br>BOX 3000<br>THRUMS BC V1N3L8<br><b>Operator/Contractor:</b> Kalesnikoff Lumber CO. Ltd<br><b>In Attendance:</b> Justin Dexter<br>Shaun Chadburn |                                  | <b>Tenure:</b> A01/A30172 <b>CP/Block:</b> 23/8<br><br><b>Inspection Date</b> (yyyy/mm/dd 24:mm): 2007/07/04 11:30<br><b>Gross (ha):</b> 0.0 <b>Net (ha):</b> 28.5<br><b>Location:</b> Schroeder Creek<br><b>Regional Inspection:</b> <input type="checkbox"/> |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                |                                  |                                                                                                                                                                                                                                                                |                                                      |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>General Requirement</b>                                                                                                                                                                     |                                  | <b>Compliance Status</b>                                                                                                                                                                                                                                       |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 Road/Trail/Landing Construction (quality, location)                                                                                                                                          |                                  | Yes                                                                                                                                                                                                                                                            |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 Permanent/Temporary access (max %, area, etc.)                                                                                                                                               |                                  | Yes                                                                                                                                                                                                                                                            |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3 Falling (external/internal boundaries, leave trees etc.)                                                                                                                                     |                                  | N/A                                                                                                                                                                                                                                                            |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4 Riparian management (debris mgmt., crossings etc.)                                                                                                                                           |                                  | Not Inspected                                                                                                                                                                                                                                                  |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 Soil conservation (disturbance etc.)                                                                                                                                                         |                                  | Yes                                                                                                                                                                                                                                                            |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Comments:</b> Soil disturbance seemed to be minimal                                                                                                                                         |                                  |                                                                                                                                                                                                                                                                |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 Revenue Management (utilization, marking etc.)                                                                                                                                               |                                  | No - Alleged Non-Compliance                                                                                                                                                                                                                                    |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7 Public safety/safe practices (roads, danger trees etc.)                                                                                                                                      |                                  | Yes                                                                                                                                                                                                                                                            |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8 Forest health/protection (piling/FFPSR/knockdown etc.)                                                                                                                                       |                                  | Not Inspected                                                                                                                                                                                                                                                  |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9 Road/Trail maintenance (water mgmt., integrity)                                                                                                                                              |                                  | Yes                                                                                                                                                                                                                                                            |                                                      |  |
| <b>Comments:</b> A separate inspection was done on spur 110 that identify some maintenance issues with the road.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                |                                  |                                                                                                                                                                                                                                                                |                                                      |  |
| 10 Site Deactivation/Rehabilitation (garbage, access etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                | Yes                              |                                                                                                                                                                                                                                                                |                                                      |  |
| <b>Comments:</b> To date things look good. No garbage was observed on site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                |                                  |                                                                                                                                                                                                                                                                |                                                      |  |
| 11 Other Plan/Prescription requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                | N/A                              |                                                                                                                                                                                                                                                                |                                                      |  |
| <b>Compliance Summary Comments:</b><br>Harvest is not complete. Sections of SUA/SUC are yet to be logged. To date things look good. Contractor harvesting CP 23/3 (McDonald Creek Contracting) started block 8 and I anticipate will finish up block 8 when CP 23/3 is complete. Some decked wood was observed near the end of Spur 110 with no mark. Please ensure that all decked wood is timber marked as outlined in Section 84(1) of the Forest Act. Since the contractor working CP 23/3 was the one working block 8, he was asked to timber mark the decks at the end of Spur 110.<br><br>Some waste was observed in burn piles. Please ensure that the waste assessment includes all landing piles. Also, ensure that hazard abatement occurs when conditions permit. |                                                                                                                                                                                                |                                  |                                                                                                                                                                                                                                                                |                                                      |  |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Inspector:</b> Justin Dexter<br><b>Signature: X</b><br>(I certify that this inspection conforms to Ministry of Forests' compliance procedures)                                              |                                  | <b>Received by:</b> s.22<br><b>Signature: X</b><br>(Signing does not imply agreement with findings)                                                                                                                                                            |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                |                                  |                                                                                                                                                                                                                                                                |                                                      |  |





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## ALLEGED NON COMPLIANCE SUMMARY

ID: 145638

X-Ref: IDIRJDEXTER 2007/07/04 11:30:00

|   |                                                                              |                                                             |
|---|------------------------------------------------------------------------------|-------------------------------------------------------------|
| I | <b>Licensee:</b> KALESNIKOFF LUMBER CO. LTD.<br>BOX 3000<br>THRUMS BC V1N3L8 | <b>Tenure:</b> A01/A30172 <b>CP/Block:</b> 23/8             |
|   | <b>Operator/Contractor:</b> Kalesnikoff Lumber CO. Ltd                       | <b>Inspection Date (yyyy/mm/dd 24:mm):</b> 2007/07/04 11:30 |
|   | <b>In Attendance:</b> Justin Dexter<br>Shaun Chadburn                        | <b>Gross (ha):</b> 0.0 <b>Net (ha):</b> 28.5                |
|   | <b>Location:</b> Schroeder Creek                                             | <b>Regional Inspection:</b> <input type="checkbox"/>        |

J,K

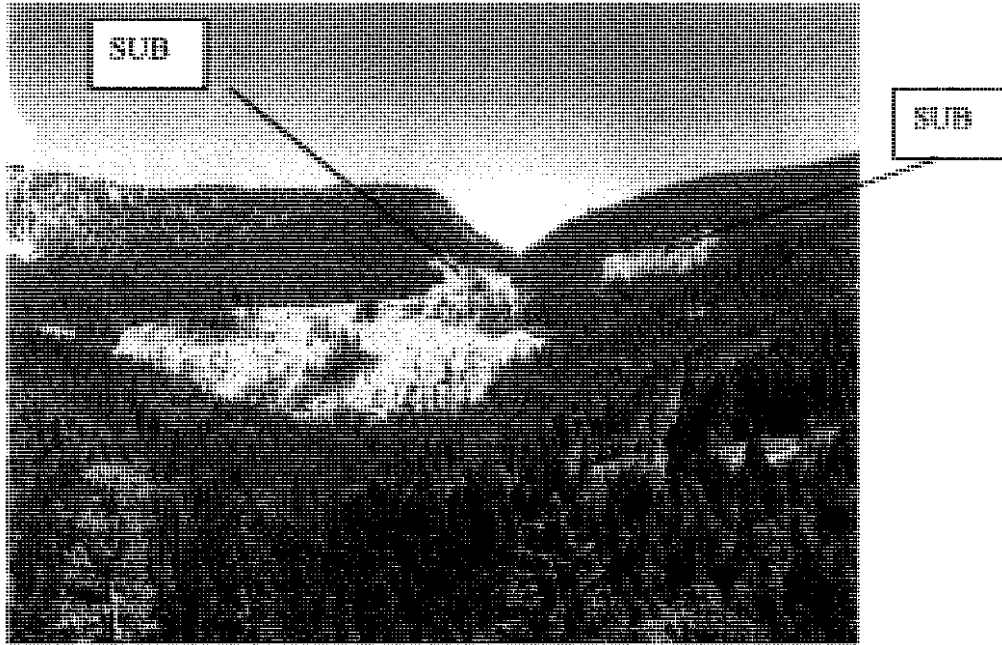
| General<br>Req # | Row | Action Taken         | Compliance<br>Action Type | Est. Incident<br>Date | Act/Reg<br>Section   | Warning<br>Ticket # | Issued To | Licence<br>Plate |
|------------------|-----|----------------------|---------------------------|-----------------------|----------------------|---------------------|-----------|------------------|
| 6                | A   | Compliance<br>Action | No Action                 | 2007/07/04            | Forest Act 84<br>(1) |                     |           |                  |

**Comment/Notice:**

Oversight from contractor. Contractor working CP 23/3 was the same contractor who harvested the completed portions of CP23/8. Contractor was asked to mark decks at end of spur 110.

|   |                                                                                         |                                                  |
|---|-----------------------------------------------------------------------------------------|--------------------------------------------------|
| L | <b>Inspector:</b> Justin Dexter                                                         | <b>Received by:</b> s.22                         |
|   | <b>Signature:</b> X                                                                     | <b>Signature:</b> X                              |
|   | (I certify that this inspection conforms to Ministry of Forests' compliance procedures) | (Signing does not imply agreement with findings) |

**Kalesnikoff Lumber Co. Ltd.  
A30172 CP 23 Block 8**



*The above photo shows what's been done on CP 23 block 8 from across valley.*



*The above photo shows some decked wood from block 8 at the end of spur 110.*

**File: 19500-40 A30172 CP23/8 Inspection ID 145638 July 04<sup>th</sup> 2007  
Justin Dexter Compliance and Enforcement Officer, Kootenay Lake Forest District**

# GENERAL INSPECTION REPORT

ID: 257885

X-Ref: IDIRIKKUPWARD 2011/09/22 00:00:00

|          |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b> | <b>Licensee/ Tenure Holder:</b><br>KALESNIKOFF LUMBER CO.<br>LTD.<br><br>BOX 3000<br>THRUMS BC V1N3L8<br><br><b>Operator/Contractor:</b><br><b>In Attendance:</b> Katherine Upward, Mike Curran, Connie Herman, Andy Cosens<br><br><b>Inspection Method</b>                                                                                      | <b>Tenure (type/no):</b> /<br><br><b>Site ID:</b> FRP_KB<br><b>Inspection Date (yyyy/mm/dd 24:mm):</b> 2011/09/22 0:00<br><b>Regional Inspection:</b> <input type="checkbox"/><br><b>Location (optional):</b> A30172 CP 23 Block 8<br><br><b>Area Inspected</b>                                       |
| <b>B</b> | <b>Ocular:</b> <input type="checkbox"/><br><b>Recce:</b> <input type="checkbox"/><br><b>Detailed Survey:</b> <input checked="" type="checkbox"/><br><b>Admin/Office:</b> <input type="checkbox"/><br><br><b>C</b> <b>Site or Activity Status:</b><br>A30172 CP 23 Block 8 SU B                                                                   | <b>Area Inspected:</b><br><b>Location Inspected:</b> SU B                                                                                                                                                                                                                                             |
| <b>D</b> | <b>Alleged Non-Compliance:</b> <input type="checkbox"/><br><b>Further Research:</b> <input checked="" type="checkbox"/>                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                       |
|          | <b>Compliance Summary Comments:</b><br>This SU appears to have exceeded the prescribed soil disturbance limits indicated in the Site Plan.                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                       |
|          |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |
| <b>E</b> | <b>Inspector:</b> Katherine Upward<br><b>Signature:</b> X<br><small>(I certify that this inspection conforms to Ministry of Forests' compliance procedures)</small><br><br><b>Attachment Description:</b><br>Checklist: <input type="checkbox"/> Digital Image: <input type="checkbox"/> Other: <input type="checkbox"/><br>Checklist:<br>Other: | <b>Received by:</b> s.22<br><b>Signature:</b> X<br><small>(Signing does not imply agreement with findings)</small><br><br><b>Delivery Method:</b><br>Email: <input checked="" type="checkbox"/> Fax: <input type="checkbox"/> Mail: <input type="checkbox"/> Hand Delivered: <input type="checkbox"/> |
|          | File # File # 19500-40/A30172 CP23                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                       |

# FURTHER RESEARCH SUMMARY

ID: 257885

X-Ref: IDIRKKUPWARD 2011/09/22 00:00:00

|   |                                                                                                                                                                                       |            |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                               |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F | <b>Licensee/ Tenure Holder:</b><br>BOX 3000<br>THRUMS BC V1N3L8<br><br><b>Operator/Contractor:</b><br><b>In Attendance:</b> Katherine Upward, Mike Curran, Connie Herman, Andy Cosens |            | <b>Tenure (type/no):</b> /<br><br><b>Site ID:</b> FRP_KB<br><b>Inspection Date (yyyy/mm/dd 24:mm):</b> 2011/09/22 0:00<br><b>Regional Inspection:</b> <input checked="" type="checkbox"/><br><b>Location (optional):</b> A30172 CP 23 Block 8 |                                                                                                                                                                                                                                                                               |
|   |                                                                                                                                                                                       |            |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                               |
| G | <b>General Req #</b>                                                                                                                                                                  | <b>Row</b> | <b>Reason</b>                                                                                                                                                                                                                                 | <b>Comment</b>                                                                                                                                                                                                                                                                |
|   | 2.00                                                                                                                                                                                  | A          | More Information Required                                                                                                                                                                                                                     | More information is required to determine the contravention and the details of the contravention. I will need to meet with Kalesnikoff to determine the facts around this block and the conventional logging in this SU. I will contact you for a meeting in the near future. |
|   |                                                                                                                                                                                       |            |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                               |
| H | <b>Inspector:</b> Katherine Upward<br><b>Signature:</b> X<br>(I certify that this inspection conforms to Ministry of Forests' compliance procedures)                                  |            |                                                                                                                                                                                                                                               | <b>Received by:</b> s.22<br><b>Signature:</b> X<br>(Signing does not imply agreement with findings)                                                                                                                                                                           |



# GENERAL FURTHER RESEARCH CLOSURE

ID: 257885

X-Ref: IDIRIKKUPWARD 2011/09/22 00:00:00

Licensee/ Tenure Holder: KALESNIKOFF LUMBER CO. LTD.  
BOX 3000  
THRUMS BC V1N3L8

Tenure (type/no): /  
Site ID: FRP\_KB  
Inspection Date (yyyy/mm/dd 24:mm): 2011/09/22 0:00  
Location (optional): A30172 CP 23 Block 8

Operator/Contractor:  
In Attendance: Katherine Upward, Mike Curran, Connie  
Herman, Andy Cosens

## Completed Items

| Original |                 | General<br>Req #   | Row | Action Taken         | Summary Comment                                                                                                                                                                                                                                                               |                    |                     |           |                  |
|----------|-----------------|--------------------|-----|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-----------|------------------|
|          |                 | 2                  | A   |                      | More information is required to determine the contravention and the details of the contravention. I will need to meet with Kalesnikoff to determine the facts around this block and the conventional logging in this SU. I will contact you for a meeting in the near future. |                    |                     |           |                  |
| #        | Closure<br>Date | Follow Up Action   |     | Compliance<br>Action | Est. Incident<br>Date                                                                                                                                                                                                                                                         | Act/Reg<br>Section | Warning<br>Ticket # | Issued To | Licence<br>Plate |
| 1        | 2012/02/15      | Enforcement Action |     |                      |                                                                                                                                                                                                                                                                               |                    |                     |           |                  |

**Closure Comment:** Information presented to me by the licensee and Mike Curran, soil specialist, indicate that a contravention for exceeding the soil disturbance limits has occurred. I have now started an investigation on this matter.

**Interview** s.22, s.15 **and C&E FO Upward, FO Forrest – 2012-02-23**

**Kalesnikoff Office – Thrums BC**

**Audio recorded**

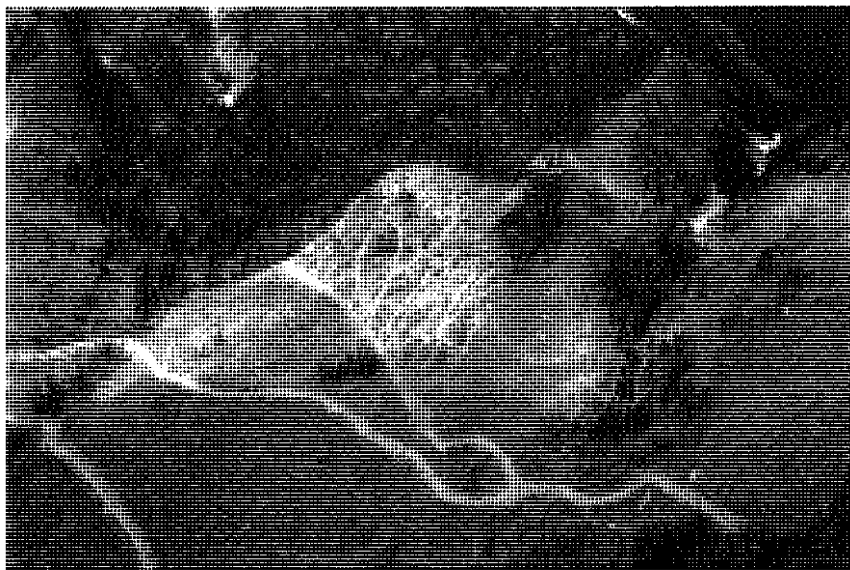
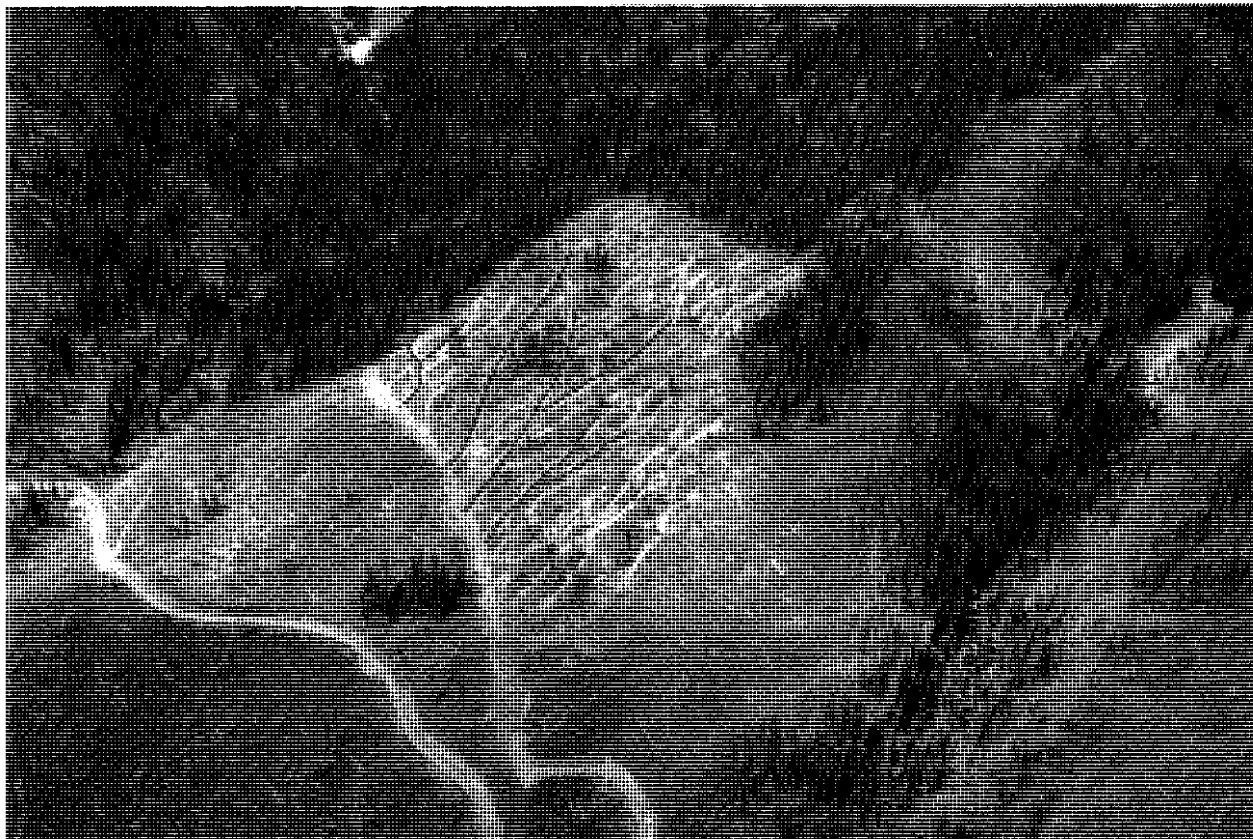
**Answers below are based on notes taken from the interview and review but actual wording can be found in the audio file.**

s.22, s.15

Pages 34 through 35 redacted for the following reasons:

-----

s.22, s.15





**Interview s.22, s.15 and C&E FO Upward, FO Forrest – 2012-02-21**

**Kootenay Forestry Office – Nelson BC**

**Audio recorded and in disclosure file.**

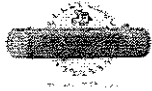
**Answers below are based on notes taken from the interview but actual wording can be referenced in the audio file.**

s.22, s.15

Pages 38 through 39 redacted for the following reasons:

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s.22, s.15



Kalesnikoff Lumber Co. Ltd. - Environmental Management System

## HARVEST INSPECTION FORM # 2251

|                                                                                                 |          |                                                                      |                                                                                                                                                      |                                                                      |
|-------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| FLA 30172                                                                                       | CP: 23   | Block: 8                                                             | SU: A16                                                                                                                                              | Location: Schroeder Creek                                            |
| Contractor: Hookoff Logging                                                                     | Foreman: | s.22                                                                 | Date: June 18, 2009                                                                                                                                  |                                                                      |
| PREWORK <input checked="" type="checkbox"/> (review prework items) In Attendance: s.22          |          |                                                                      |                                                                                                                                                      |                                                                      |
| Project Plans & Maps: Office <input type="checkbox"/> Field <input checked="" type="checkbox"/> |          | YES <input checked="" type="checkbox"/> N/A <input type="checkbox"/> | Riparian/Fish Management - EMS                                                                                                                       | YES <input checked="" type="checkbox"/> N/A <input type="checkbox"/> |
| Geo-technical reports                                                                           |          | ✓                                                                    | Water Management - EMS                                                                                                                               | ✓                                                                    |
| Contract reviewed and signed                                                                    |          | ✓                                                                    | Watershed Purveyor - 48 Hour Notice                                                                                                                  | ✓                                                                    |
| Fuel/Chemical Management - EMS                                                                  |          | ✓                                                                    | Fire Season April 1 to October 31                                                                                                                    | ✓                                                                    |
| Fire Prevention and Suppression - EMS                                                           |          | ✓                                                                    | Fire Tools as per EIS                                                                                                                                | ✓                                                                    |
| Terrain Stability Management - EMS                                                              |          | ✓                                                                    | Acceptable Water Delivery System (document in comments below)                                                                                        | ✓                                                                    |
| Soil Productivity - EMS                                                                         |          | ✓                                                                    | Fire Watch Responsibilities Discussed                                                                                                                | ✓                                                                    |
| Ecosystem Management - EMS                                                                      |          | ✓                                                                    | S100 Trained Individuals Sufficient for Site                                                                                                         | ✓                                                                    |
| Prime Contractor General Requirements                                                           |          | YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/> | Multiple Employer Worksite                                                                                                                           | N/A <input checked="" type="checkbox"/>                              |
| Contractors safety records, claims, compliance reviewed                                         |          | ✓                                                                    | Contractors working adjacent to each other - Has risk increased due to proximity <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                                                                      |
| Prime Contractor capable of assuming Prime Contractor role                                      |          | ✓                                                                    | If YES - designate site specific 'Prime Contractor' through agreement, signing below.                                                                |                                                                      |
| Contractor accepts Prime Contractor role                                                        |          | ✓                                                                    | Prime: _____                                                                                                                                         |                                                                      |
| KLC 'Safety instructions' provided to the Prime Contractor                                      |          | ✓                                                                    | Secondary(s): _____                                                                                                                                  |                                                                      |
| Notice of Project sent to WSBC/C&E                                                              |          | ✓                                                                    | Print Name _____ Sign _____                                                                                                                          |                                                                      |

|                                                         |                                           |  |  |  |                                                               |                              |     |                                    |                                                        |                                                 |     |     |     |     |     |     |     |
|---------------------------------------------------------|-------------------------------------------|--|--|--|---------------------------------------------------------------|------------------------------|-----|------------------------------------|--------------------------------------------------------|-------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| PROGRESS <input type="checkbox"/> (relevant items only) |                                           |  |  |  | POST-OP <input type="checkbox"/> (all items must be reviewed) |                              |     |                                    |                                                        | AUDITOR PROJECT REVIEW <input type="checkbox"/> |     |     |     |     |     |     |     |
| Harvest Practices Review                                |                                           |  |  |  | N/A                                                           | Sat                          | A/R | A/C                                | Riparian/Fish/Water Management (Consumptive Use 22-27) |                                                 |     |     |     | N/A | Sat | A/R | A/C |
| 1                                                       | Compliance with Project Plan              |  |  |  |                                                               | 16                           | 22  | Streams Identified                 |                                                        |                                                 |     |     |     |     |     |     |     |
| 2                                                       | Trail, Road, Landing Deactivation         |  |  |  |                                                               | 17                           | 23  | Fish Stream Crossing Windows       |                                                        |                                                 |     |     |     |     |     |     |     |
| 3                                                       | Reserves/WTP's                            |  |  |  |                                                               | 18                           | 24  | Riparian Management Area Practices |                                                        |                                                 |     |     |     |     |     |     |     |
| 4                                                       | Leave Tree Quality                        |  |  |  |                                                               | 19                           | 25  | Stream Crossings, X-Stream Yarding |                                                        |                                                 |     |     |     |     |     |     |     |
| 5                                                       | Litter and Waste Handling                 |  |  |  |                                                               | 20                           | 26  | Stream Maintenance                 |                                                        |                                                 |     |     |     |     |     |     |     |
| 6                                                       | Landings Rehabilitated/Piles Burned       |  |  |  |                                                               | 21                           | 27  | Culvert/Ditch Maintenance          |                                                        |                                                 |     |     |     |     |     |     |     |
| 7                                                       | Timber Utilization/Sawlog Quality         |  |  |  |                                                               | Terrain Stability Management |     |                                    |                                                        |                                                 | N/A | Sat | A/R | A/C |     |     |     |
| 8                                                       | Timber Marking (Hammer)                   |  |  |  |                                                               | 28                           |     | Permanent Access Structures        |                                                        |                                                 |     |     |     |     |     |     |     |
| 9                                                       | Grass Seeding                             |  |  |  |                                                               | 29                           |     | Temporary Access Structures        |                                                        |                                                 |     |     |     |     |     |     |     |
| 10                                                      | Load Description Sign Requirements        |  |  |  |                                                               | 30                           |     | Trail and Landing Locations        |                                                        |                                                 |     |     |     |     |     |     |     |
| Safety                                                  |                                           |  |  |  | N/A                                                           | Sat                          | A/R | A/C                                | Fuel/Chemical Management                               |                                                 |     |     |     | N/A | Sat | A/R | A/C |
| 11                                                      | All Categories                            |  |  |  |                                                               | 31                           |     | Fuel Handling, Storage, Locations  |                                                        |                                                 |     |     |     |     |     |     |     |
| 12                                                      | 1st Aid Attendant on Site                 |  |  |  |                                                               | 32                           |     | Spill Kits/Clean-up                |                                                        |                                                 |     |     |     |     |     |     |     |
| Fire Prevention and Suppression                         |                                           |  |  |  | N/A                                                           | Sat                          | A/R | A/C                                | Soil Productivity                                      |                                                 |     |     |     |     |     |     |     |
| 13                                                      | Certified Fire Person (S100)              |  |  |  |                                                               | 33                           |     | Site Disturbance                   |                                                        |                                                 |     |     |     |     |     |     |     |
| 14                                                      | Fire Prevention Equipment                 |  |  |  |                                                               | 34                           |     | Landing Size and Location          |                                                        |                                                 |     |     |     |     |     |     |     |
| 15                                                      | Fire Watch and Activity Restrictions      |  |  |  |                                                               | 35                           |     | Adverse Weather Shutdown           |                                                        |                                                 |     |     |     |     |     |     |     |
| 15a                                                     | Fire Hazard and Risk Assessment Completed |  |  |  |                                                               |                              |     |                                    |                                                        |                                                 |     |     |     |     |     |     |     |

This inspection is based on obligations checked and in no way implies that other obligations meet their requirements

A/R - Action Required; A/C - Action Completed; Blank Category is deemed to be Not Inspected.

| Item # | Comments<br>(If Action completed - reference activity & original inspection #)                                 | Assigned to: | Complete Action by:<br>(Date) | Date Action completed:<br>(Date) | A/R Inspection Reference# |
|--------|----------------------------------------------------------------------------------------------------------------|--------------|-------------------------------|----------------------------------|---------------------------|
|        | - Firebreak in place / water tank pump                                                                         |              |                               |                                  |                           |
|        | - 30 leave trees directed to steep pitches above upper cutblock boundary, further boundary to extent possible. |              |                               |                                  |                           |
|        | - Retain healthy understory patches with limited volume for removal.                                           |              |                               |                                  |                           |
|        | - Fall 11 fire killed danger trees within 1 tree length of road                                                |              |                               |                                  |                           |

|                      |               |                      |               |
|----------------------|---------------|----------------------|---------------|
| s.22                 | June 18, 2009 | s.22                 | June 18, 2009 |
| Supervisor Signature | Date          | Contractor Signature | Date          |

Last revised on November 17, 2006

Date Entered: \_\_\_\_\_

White - Company Supervisor

Yellow - Contractor

Pink - EMS Coordinator

HARVEST INSPECTION FORM # 2254

|                                                                                      |                |          |                                                                                                                                           |                    |
|--------------------------------------------------------------------------------------|----------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| FL A 30172                                                                           | CP: 23         | Block: 8 | SU: A4                                                                                                                                    | Location: Schwaede |
| Contractor: Hook off Logging                                                         | Foreman:       | s.22     | Date: July 7, 2009                                                                                                                        |                    |
| PREWORK <input type="checkbox"/> (review prework items)                              | In Attendance: |          |                                                                                                                                           |                    |
|                                                                                      | YES            | N/A      |                                                                                                                                           | YES                |
| Project Plans & Maps: Office <input type="checkbox"/> Field <input type="checkbox"/> |                |          | Riparian/Fish Management - EMS                                                                                                            |                    |
| Geo-technical reports                                                                |                |          | Water Management - EMS CW <input type="checkbox"/> DW <input type="checkbox"/>                                                            |                    |
| Contract reviewed and signed                                                         |                |          | Watershed Purveyor - 48 Hour Notice                                                                                                       |                    |
| Fuel/Chemical Management - EMS                                                       |                |          | Fire Season April 1 to October 31                                                                                                         |                    |
| Fire Prevention and Suppression - EMS                                                |                |          | Fire Tools as per EI's                                                                                                                    |                    |
| Terrain Stability Management - EMS                                                   |                |          | Acceptable Water Delivery System (document in comments below)                                                                             |                    |
| Soil Productivity - EMS                                                              |                |          | Fire Watch Responsibilities Discussed                                                                                                     |                    |
| Ecosystem Management - EMS                                                           |                |          | \$100 Trained Individuals Sufficient for Site                                                                                             |                    |
| Prime Contractor General Requirements                                                | YES            | N/A      | <input checked="" type="checkbox"/> Multiple Employer Worksite <input type="checkbox"/> N/A                                               |                    |
| Contractors safety records, claims, compliance reviewed                              |                |          | Contractors working adjacent to each other - Has risk increased due to proximity <input type="checkbox"/> Yes <input type="checkbox"/> No |                    |
| Prime Contractor capable of assuming Prime Contractor role                           |                |          | If YES - designate site specific 'Prime Contractor' through agreement, signing below.                                                     |                    |
| Contractor accepts Prime Contractor role                                             |                |          | Prime: Hook off Logging                                                                                                                   |                    |
| KLC 'Safety Instructions' provided to the Prime Contractor                           |                |          | Secondary(s): Connerment Logging                                                                                                          |                    |
| Notice of Project sent to WSBC / C&E                                                 |                |          | Print Name: - N/A                                                                                                                         | Sign               |

[illegible]

This inspection is based on obligations checked and in no way implies that other obligations meet their requirements  
A/R - Action Required; A/C - Action Completed; Blank Category is deemed to be Not Inspected.

[illegible]



HARVEST INSPECTION FORM # 2256

|                                                                                      |                |          |                                                                                                                                           |                           |
|--------------------------------------------------------------------------------------|----------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| FLA 30172                                                                            | CP: 23         | Block: 8 | SU: A-11                                                                                                                                  | Location: Schroeder Creek |
| Contractor: Hackett Logging                                                          | Foreman:       | s.22     | Date: July 22, 2009                                                                                                                       |                           |
| <b>PREWORK</b> <input type="checkbox"/> (review prework items)                       | In Attendance: |          |                                                                                                                                           |                           |
| Project Plans & Maps: Office <input type="checkbox"/> Field <input type="checkbox"/> | YES            | N/A      | Riparian/Fish Management - EMS                                                                                                            | YES                       |
| Geo-technical reports                                                                |                |          | Water Management - EMS CW <input type="checkbox"/> DW <input type="checkbox"/>                                                            | N/A                       |
| Contract reviewed and signed                                                         |                |          | Watershed Purveyor - 48 Hour Notice                                                                                                       |                           |
| Fuel/Chemical Management - EMS                                                       |                |          | Fire Season April 1 to October 31                                                                                                         |                           |
| Fire Prevention and Suppression - EMS                                                |                |          | Fire Tools as per EIS                                                                                                                     |                           |
| Terrain Stability Management - EMS                                                   |                |          | Acceptable Water Delivery System (document in comments below)                                                                             |                           |
| Soil Productivity - EMS                                                              |                |          | Fire Watch Responsibilities Discussed                                                                                                     |                           |
| Ecosystem Management - EMS                                                           |                |          | \$100 Trained Individuals Sufficient for Site                                                                                             |                           |
| <b>Prime Contractor General Requirements</b>                                         | YES            | N/A      | <input checked="" type="checkbox"/> Multiple Employer Worksite <input type="checkbox"/> N/A                                               |                           |
| Contractors safety records, claims, compliance reviewed                              |                |          | Contractors working adjacent to each other - Has risk increased due to proximity <input type="checkbox"/> Yes <input type="checkbox"/> No |                           |
| Prime Contractor capable of assuming Prime Contractor role                           |                |          | If YES - designate site specific 'Prime Contractor' through agreement, signing below.                                                     |                           |
| Contractor accepts Prime Contractor role                                             |                |          | Prime: _____                                                                                                                              |                           |
| KLC 'Safety Instructions' provided to the Prime Contractor                           |                |          | Secondary(s): _____                                                                                                                       |                           |
| Notice of Project sent to WSBC / C&E                                                 |                |          | Print Name _____ Sign _____                                                                                                               |                           |

| PROGRESS <input checked="" type="checkbox"/> (relevant items only) |                                           |                                     | POST-OP <input type="checkbox"/> (all items must be reviewed) |                                     |     |     | AUDITOR PROJECT REVIEW <input type="checkbox"/>           |    |                                    |                                     |                                     |     |     |     |
|--------------------------------------------------------------------|-------------------------------------------|-------------------------------------|---------------------------------------------------------------|-------------------------------------|-----|-----|-----------------------------------------------------------|----|------------------------------------|-------------------------------------|-------------------------------------|-----|-----|-----|
| Harvest Practices Review                                           |                                           |                                     | N/A                                                           | Sat                                 | A/R | A/C | Riparian/Fish/Water Management<br>(Consumptive Use 22-27) |    |                                    |                                     | N/A                                 | Sat | A/R | A/C |
| 1                                                                  | Compliance with Project Plan              |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 16                                                        | 22 | Streams Identified                 |                                     | <input checked="" type="checkbox"/> |     |     |     |
| 2                                                                  | Trail, Road, Landing Deactivation         | <input checked="" type="checkbox"/> |                                                               |                                     |     |     | 17                                                        | 23 | Fish Stream Crossing Windows       | <input checked="" type="checkbox"/> |                                     |     |     |     |
| 3                                                                  | Reserves/WTP's                            |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 18                                                        | 24 | Riparian Management Area Practices |                                     | <input checked="" type="checkbox"/> |     |     |     |
| 4                                                                  | Leave Tree Quality                        |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 19                                                        | 25 | Stream Crossings, X-Stream Yarding | <input checked="" type="checkbox"/> |                                     |     |     |     |
| 5                                                                  | Litter and Waste Handling                 |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 20                                                        | 26 | Stream Maintenance                 | <input checked="" type="checkbox"/> |                                     |     |     |     |
| 6                                                                  | Landings Rehabilitated/Piles Burned       | <input checked="" type="checkbox"/> |                                                               |                                     |     |     | 21                                                        | 27 | Culvert/Ditch Maintenance          |                                     | <input checked="" type="checkbox"/> |     |     |     |
| 7                                                                  | Timber Utilization/Sawlog Quality         |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | Terrain Stability Management                              |    |                                    |                                     | N/A                                 | Sat | A/R | A/C |
| 8                                                                  | Timber Marking (Hammer)                   |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 28                                                        |    | Permanent Access Structures        |                                     | <input checked="" type="checkbox"/> |     |     |     |
| 9                                                                  | Grass Seeding                             | <input checked="" type="checkbox"/> |                                                               |                                     |     |     | 29                                                        |    | Temporary Access Structures        |                                     | <input checked="" type="checkbox"/> |     |     |     |
| 10                                                                 | Load Description Slip Requirements        |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 30                                                        |    | Trail and Landing Locations        |                                     | <input checked="" type="checkbox"/> |     |     |     |
| Safety                                                             |                                           |                                     | N/A                                                           | Sat                                 | A/R | A/C | Fuel/Chemical Management                                  |    |                                    |                                     | N/A                                 | Sat | A/R | A/C |
| 11                                                                 | All Categories                            |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 31                                                        |    | Fuel Handling, Storage, Locations  |                                     | <input checked="" type="checkbox"/> |     |     |     |
| 12                                                                 | 1 <sup>st</sup> Aid Attendant on Site     |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 32                                                        |    | Spill Kits/Clean-up                |                                     | <input checked="" type="checkbox"/> |     |     |     |
| Fire Prevention and Suppression                                    |                                           |                                     | N/A                                                           | Sat                                 | A/R | A/C | Soil Productivity                                         |    |                                    |                                     |                                     |     |     |     |
| 13                                                                 | Certified Fire Person (\$100)             |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 33                                                        |    | Site Disturbance                   |                                     | <input checked="" type="checkbox"/> |     |     |     |
| 14                                                                 | Fire Prevention Equipment                 |                                     |                                                               | <input checked="" type="checkbox"/> |     |     | 34                                                        |    | Landing Size and Location          |                                     | <input checked="" type="checkbox"/> |     |     |     |
| 15                                                                 | Fire Watch and Activity Restrictions      | <input checked="" type="checkbox"/> |                                                               |                                     |     |     | 35                                                        |    | Adverse Weather Shutdown           | <input checked="" type="checkbox"/> |                                     |     |     |     |
| 15a                                                                | Fire Hazard and Risk Assessment Completed |                                     |                                                               | <input checked="" type="checkbox"/> |     |     |                                                           |    |                                    |                                     |                                     |     |     |     |

*This inspection is based on obligations checked and in no way implies that other obligations meet their requirements*

AR - Action Required; AC - Action Completed; Blank Category is deemed to be Not Inspected.

[illegible]

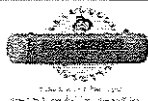
Last revised on November 17, 2005

Date Entered:

White - Company Supervisor

Yellow - Contractor

*Pink – EMS Coordinator*



Kalesnikoff Lumber Co. Ltd. - Environmental Management System

## HARVEST INSPECTION FORM # 2259

|                                                                                      |          |          |                                                                                                                                           |                           |
|--------------------------------------------------------------------------------------|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| FL A 30172                                                                           | CP: 23   | Block: 8 | SU: 411                                                                                                                                   | Location: Schroeder Creek |
| Contractor: Blockoff Logging                                                         | Foreman: | s.22     | Date: Aug. 5 12009                                                                                                                        |                           |
| PREWORK <input type="checkbox"/> (review prework items) In Attendance:               |          |          |                                                                                                                                           |                           |
| Project Plans & Maps. Office <input type="checkbox"/> Field <input type="checkbox"/> |          | YES N/A  | YES N/A                                                                                                                                   |                           |
| Geo-technical reports                                                                |          |          | Riparian/Fish Management - EMS                                                                                                            |                           |
| Contract reviewed and signed                                                         |          |          | Water Management - EMS CW <input type="checkbox"/> DW <input type="checkbox"/>                                                            |                           |
| Fuel/Chemical Management - EMS                                                       |          |          | Watershed Purveyor - 48 Hour Notice                                                                                                       |                           |
| Fire Prevention and Suppression - EMS                                                |          |          | Fire Season April 1 to October 31                                                                                                         |                           |
| Terrain Stability Management - EMS                                                   |          |          | Fire Tools as per E/s                                                                                                                     |                           |
| Soil Productivity - EMS                                                              |          |          | Acceptable Water Delivery System (document in comments below)                                                                             |                           |
| Ecosystem Management - EMS                                                           |          |          | Fire Watch Responsibilities Discussed                                                                                                     |                           |
| Prime Contractor General Requirements                                                |          | YES N/A  | S100 Trained Individuals Sufficient for Site                                                                                              |                           |
| Contractors safety records, claims, compliance reviewed                              |          |          | <input type="checkbox"/> Multiple Employer Worksite <input type="checkbox"/> N/A                                                          |                           |
| Prime Contractor capable of assuming Prime Contractor role                           |          |          | Contractors working adjacent to each other - Has risk increased due to proximity <input type="checkbox"/> Yes <input type="checkbox"/> No |                           |
| Contractor accepts Prime Contractor role                                             |          |          | If YES - designate site specific Prime Contractor through agreement, signing below.                                                       |                           |
| KLC Safety Instructions provided to the Prime Contractor                             |          |          | Prime:                                                                                                                                    |                           |
| Notice of Project sent to WSBC / C&E                                                 |          |          | Secondary(s):                                                                                                                             |                           |
|                                                                                      |          |          | Print Name Sign                                                                                                                           |                           |

|                                                                    |                                           |   |   |  |                                                               |                              |     |                                    |                                                        |                                                 |     |     |     |     |     |     |     |
|--------------------------------------------------------------------|-------------------------------------------|---|---|--|---------------------------------------------------------------|------------------------------|-----|------------------------------------|--------------------------------------------------------|-------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| PROGRESS <input checked="" type="checkbox"/> (relevant items only) |                                           |   |   |  | POST-OP <input type="checkbox"/> (all items must be reviewed) |                              |     |                                    |                                                        | AUDITOR PROJECT REVIEW <input type="checkbox"/> |     |     |     |     |     |     |     |
| Harvest Practices Review                                           |                                           |   |   |  | N/A                                                           | Sat                          | A/R | A/C                                | Riparian/Fish/Water Management (Consumptive Use 22-27) |                                                 |     |     |     | N/A | Sat | A/R | A/C |
| 1                                                                  | Compliance with Project Plan              |   | ✓ |  |                                                               | 16                           | 22  | Streams Identified                 |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 2                                                                  | Trail, Road, Landing Deactivation         |   | ✓ |  |                                                               | 17                           | 23  | Fish Stream Crossing Windows       | ✓                                                      |                                                 |     |     |     |     |     |     |     |
| 3                                                                  | Reserves/WTP's                            |   | ✓ |  |                                                               | 18                           | 24  | Riparian Management Area Practices |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 4                                                                  | Leave Tree Quality                        |   | ✓ |  |                                                               | 19                           | 25  | Stream Crossings, X-Stream Yarding | ✓                                                      |                                                 |     |     |     |     |     |     |     |
| 5                                                                  | Litter and Waste Handling                 |   | ✓ |  |                                                               | 20                           | 26  | Stream Maintenance                 |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 6                                                                  | Landings Rehabilitated/Piles Burned       | ✓ |   |  |                                                               | 21                           | 27  | Culvert/Ditch Maintenance          |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 7                                                                  | Timber Utilization/Sawlog Quality         |   | ✓ |  |                                                               | Terrain Stability Management |     |                                    |                                                        |                                                 | N/A | Sat | A/R | A/C |     |     |     |
| 8                                                                  | Timber Marking (Hammer)                   |   | ✓ |  |                                                               | 28                           |     | Permanent Access Structures        |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 9                                                                  | Grass Seeding                             | ✓ |   |  |                                                               | 29                           |     | Temporary Access Structures        |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 10                                                                 | Load Description Slip Requirements        |   | ✓ |  |                                                               | 30                           |     | Trail and Landing Locations        |                                                        | ✓                                               |     |     |     |     |     |     |     |
| Safety                                                             |                                           |   |   |  | N/A                                                           | Sat                          | A/R | A/C                                | Fuel/Chemical Management                               |                                                 |     |     |     | N/A | Sat | A/R | A/C |
| 11                                                                 | All Categories                            |   | ✓ |  |                                                               | 31                           |     | Fuel Handling, Storage, Locations  |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 12                                                                 | 1st Aid Attendant on Site                 |   | ✓ |  |                                                               | 32                           |     | Spill Kits/Clean-up                |                                                        | ✓                                               |     |     |     |     |     |     |     |
| Fire Prevention and Suppression                                    |                                           |   |   |  | N/A                                                           | Sat                          | A/R | A/C                                | Soil Productivity                                      |                                                 |     |     |     |     | Sat | A/R | A/C |
| 13                                                                 | Certified Fire Person (S100)              |   | ✓ |  |                                                               | 33                           |     | Site Disturbance                   |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 14                                                                 | Fire Prevention Equipment                 |   | ✓ |  |                                                               | 34                           |     | Landing Size and Location          |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 15                                                                 | Fire Watch and Activity Restrictions      |   | ✓ |  |                                                               | 35                           |     | Adverse Weather Shutdown           |                                                        | ✓                                               |     |     |     |     |     |     |     |
| 15a                                                                | Fire Hazard and Risk Assessment Completed |   | ✓ |  |                                                               |                              |     |                                    |                                                        |                                                 |     |     |     |     |     |     |     |

This inspection is based on obligations checked and in no way implies that other obligations meet their requirements

A/R - Action Required; A/C - Action Completed; Blank Category is deemed to be Not Inspected.

| Item #               | Comments (If Action completed - reference activity & original inspection #)                                                                                           | Assigned to: | Complete Action by: (Date) | Date Action completed: (Date) | A/R Inspection Reference# |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|-------------------------------|---------------------------|
| 15                   | 1 hour Greenwatch in effect<br>Cable portion complete. Conventional log to be finished by Aug. 14. Deactivation and clean-up to follow.<br>Good leave tree selection! | Blockoff     | Aug. 5/09                  | Aug. 5/09                     |                           |
| s.22                 |                                                                                                                                                                       |              |                            |                               |                           |
| Supervisor Signature |                                                                                                                                                                       | Date         |                            | Contractor Signature          |                           |
|                      |                                                                                                                                                                       | Aug. 5/09    |                            | Date                          |                           |

Last revised on November 17, 2006

Date Entered: \_\_\_\_\_

White - Company Supervisor

Yellow - Contractor

Pink - EMS Coordinator





Kalesnikoff Lumber Co. Ltd. – Environmental Management System

## HARVEST INSPECTION FORM # 2261

|                                                                                                                                           |          |          |                       |                     |     |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-----------------------|---------------------|-----|
| FLA: 30172                                                                                                                                | CP: 23   | Block: 8 | SU: AU                | Location: Schroeder |     |
| Contractor: Hackett Logging                                                                                                               | Foreman: | s.22     | Date: August 17, 2009 |                     |     |
| PREWORK <input type="checkbox"/> (review prework items) In Attendance:                                                                    |          |          |                       |                     |     |
| Project Plans & Maps Office <input type="checkbox"/> Field <input type="checkbox"/>                                                       |          | YES      | N/A                   | YES                 | N/A |
| Geo-technical reports                                                                                                                     |          |          |                       |                     |     |
| Contract reviewed and signed                                                                                                              |          |          |                       |                     |     |
| Fuel/Chemical Management - EMS                                                                                                            |          |          |                       |                     |     |
| Fire Prevention and Suppression - EMS                                                                                                     |          |          |                       |                     |     |
| Terrain Stability Management - EMS                                                                                                        |          |          |                       |                     |     |
| Soil Productivity - EMS                                                                                                                   |          |          |                       |                     |     |
| Ecosystem Management - EMS                                                                                                                |          |          |                       |                     |     |
| Prime Contractor General Requirements                                                                                                     |          | YES      | N/A                   |                     |     |
| Contractors safety records, claims, compliance reviewed                                                                                   |          |          |                       |                     |     |
| Prime Contractor capable of assuming Prime Contractor role                                                                                |          |          |                       |                     |     |
| Contractor accepts Prime Contractor role                                                                                                  |          |          |                       |                     |     |
| KLC Safety Instructions provided to the Prime Contractor                                                                                  |          |          |                       |                     |     |
| Notice of Project sent to WSBC / C&E                                                                                                      |          |          |                       |                     |     |
| Riparian/Fish Management - EMS                                                                                                            |          |          |                       |                     |     |
| Water Management - EMS CW <input type="checkbox"/> DW <input type="checkbox"/>                                                            |          |          |                       |                     |     |
| Watershed Purveyor - 48 Hour Notice                                                                                                       |          |          |                       |                     |     |
| Fire Season April 1 to October 31                                                                                                         |          |          |                       |                     |     |
| Fire Tools as per FFA                                                                                                                     |          |          |                       |                     |     |
| Acceptable Water Delivery System (document in comments below)                                                                             |          |          |                       |                     |     |
| Fire Watch Responsibilities Discussed                                                                                                     |          |          |                       |                     |     |
| S100 Trained Individuals Sufficient for Site                                                                                              |          |          |                       |                     |     |
| <input type="checkbox"/> Multiple Employer Worksite <input type="checkbox"/> N/A                                                          |          |          |                       |                     |     |
| Contractors working adjacent to each other - Has risk increased due to proximity <input type="checkbox"/> Yes <input type="checkbox"/> No |          |          |                       |                     |     |
| If YES - designate site specific 'Prime Contractor' through agreement, signing below.                                                     |          |          |                       |                     |     |
| Prime:                                                                                                                                    |          |          |                       |                     |     |
| Secondary(s):                                                                                                                             |          |          |                       |                     |     |
| Print Name                                                                                                                                |          |          |                       |                     |     |
| Sign                                                                                                                                      |          |          |                       |                     |     |

|                                                         |                                           |                                                                          |     |     |     |                                                        |    |                                    |     |     |     |     |
|---------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------|-----|-----|-----|--------------------------------------------------------|----|------------------------------------|-----|-----|-----|-----|
| PROGRESS <input type="checkbox"/> (relevant items only) |                                           | POST-OP <input checked="" type="checkbox"/> (all items must be reviewed) |     |     |     | AUDITOR PROJECT REVIEW <input type="checkbox"/>        |    |                                    |     |     |     |     |
| Harvest Practices Review                                |                                           | N/A                                                                      | Sat | A/R | A/C | Riparian/Fish/Water Management (Consumptive Use 22-27) |    | N/A                                | Sat | A/R | A/C |     |
| 1                                                       | Compliance with Project Plan              |                                                                          | ✓   |     |     | 16                                                     | 22 | Streams Identified                 |     | ✓   |     |     |
| 2                                                       | Trail, Road, Landing Deactivation         |                                                                          |     | ✓   |     | 17                                                     | 23 | Fish Stream Crossing Windows       | ✓   |     |     |     |
| 3                                                       | Reserves/WTP's                            |                                                                          | ✓   |     |     | 18                                                     | 24 | Riparian Management Area Practices |     | ✓   |     |     |
| 4                                                       | Leave Tree Quality                        |                                                                          | ✓   |     |     | 19                                                     | 25 | Stream Crossings, X-Stream Yarding | ✓   |     |     |     |
| 5                                                       | Litter and Waste Handling                 |                                                                          | ✓   |     |     | 20                                                     | 26 | Stream Maintenance                 |     | ✓   |     |     |
| 6                                                       | Landings Rehabilitated/Piles Burned       |                                                                          |     | ✓   |     | 21                                                     | 27 | Culvert/Ditch Maintenance          |     | ✓   |     |     |
| 7                                                       | Timber Utilization/Sawlog Quality         |                                                                          | ✓   |     |     |                                                        |    | Terrain Stability Management       | N/A | Sat | A/R | A/C |
| 8                                                       | Timber Marking (Hammer)                   | ✓                                                                        |     |     |     | 28                                                     |    | Permanent Access Structures        |     | ✓   |     |     |
| 9                                                       | Grass Seeding                             | ✓                                                                        |     |     |     | 29                                                     |    | Temporary Access Structures        |     | ✓   |     |     |
| 10                                                      | Load Description Slip Requirements        | ✓                                                                        |     |     |     | 30                                                     |    | Trail and Landing Locations        |     | ✓   |     |     |
| Safety                                                  |                                           | N/A                                                                      | Sat | A/R | A/C |                                                        |    | Fuel/Chemical Management           | N/A | Sat | A/R | A/C |
| 11                                                      | All Categories                            | ✓                                                                        |     |     |     | 31                                                     |    | Fuel Handling, Storage, Locations  | ✓   |     |     |     |
| 12                                                      | 1st Aid Attendant on Site                 | ✓                                                                        |     |     |     | 32                                                     |    | Spill Kits/Clean-up                | ✓   |     |     |     |
| Fire Prevention and Suppression                         |                                           | N/A                                                                      | Sat | A/R | A/C |                                                        |    | Soil Productivity                  |     |     |     |     |
| 13                                                      | Certified Fire Person (S100)              | ✓                                                                        |     |     |     | 33                                                     |    | Site Disturbance                   |     | ✓   |     |     |
| 14                                                      | Fire Prevention Equipment                 | ✓                                                                        |     |     |     | 34                                                     |    | Landing Size and Location          |     | ✓   |     |     |
| 15                                                      | Fire Watch and Activity Restrictions      | ✓                                                                        |     |     |     | 35                                                     |    | Adverse Weather Shutdown           | ✓   |     |     |     |
| 15a                                                     | Fire Hazard and Risk Assessment Completed | ✓                                                                        |     |     |     |                                                        |    |                                    |     |     |     |     |

This inspection is based on obligations checked and in no way implies that other obligations meet their requirements.  
A/R - Action Required, A/C - Action Completed; Blank Category is deemed to be Not Inspected.

| Item #                                                                                                          | Comments<br>(if Action completed - reference activity & original inspection #) | Assigned to:        | Complete Action by:<br>(Date) | Date Action completed:<br>(Date) | A/R Inspection Reference# |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------|-------------------------------|----------------------------------|---------------------------|
| 2                                                                                                               | Trail Deactivation                                                             | Hackett             | Sep-30, 09                    |                                  |                           |
| 6                                                                                                               | Pile Burning                                                                   | KLC                 | Dec-31, 09                    |                                  |                           |
| Hackett Logging to deactivate trails and brush pile. KLC will seasonally deactivate roads after work completed. |                                                                                |                     |                               |                                  |                           |
| s.22                                                                                                            |                                                                                |                     |                               |                                  |                           |
| Supervisor Signature                                                                                            |                                                                                | Date: Aug. 17, 2009 |                               | Contractor Signature             |                           |
|                                                                                                                 |                                                                                |                     |                               | Date: Aug 24/09                  |                           |

Last revised on November 17, 2006

Date Entered: \_\_\_\_\_

White - Company Supervisor

Yellow - Contractor

Pink - EMS Coordinator

## CP 23 Block 8 – Site Plan Amendment #2

The prescription for CP 23 Block 8 was originally slated for both conventional and cable harvesting systems. Prior to operations commencing on this permit, the company reassessed the harvesting methods prescribed and determined that the harvest systems were not entirely conducive to the equipment complement available to the company. Significant portions of SU A were deemed too steep to log safely with conventional equipment. Conversely, significant portions of SU B were deemed to be beyond the capabilities of cable yarding due to the complex, broken terrain of the unit. As a result, harvest systems were transposed between the two units as described in the following tables and map.

### B. AREA SUMMARY

| AREA OF NO PLANNED REFORESTATION (ha) (NPR)                          |                                                                        |       |       |          |        |                                                                                                                 |          |                 |                            |
|----------------------------------------------------------------------|------------------------------------------------------------------------|-------|-------|----------|--------|-----------------------------------------------------------------------------------------------------------------|----------|-----------------|----------------------------|
| PERMANENT ACCESS                                                     | ROCK                                                                   | WATER | SWAMP | OTHER NP | NC>4ha | RESERVES WITH NO MODIFICATIONS:                                                                                 | IMMATURE | OTHER (specify) | TOTAL NPR AREA             |
| 2.4                                                                  | 0.0                                                                    | 0.0   | 0.0   | 0.0      | 0.0    | 9.0                                                                                                             | 0.0      | 0.0             | 11.4                       |
| NET AREA TO BE REFORESTED INCLUDING RESERVES WITH MODIFICATIONS (ha) |                                                                        |       |       |          |        |                                                                                                                 |          |                 |                            |
| SU                                                                   | SU AREA DESCRIPTION                                                    |       |       |          |        |                                                                                                                 |          |                 | NET AREA TO BE REFORESTED: |
| A1                                                                   | Conventional harvesting as per original prescription.                  |       |       |          |        |                                                                                                                 |          |                 | 2.0                        |
| A2                                                                   | Amended to cable harvest systems from conventional.                    |       |       |          |        |                                                                                                                 |          |                 | 6.6                        |
| B1                                                                   | Cable harvesting as per original prescription.                         |       |       |          |        |                                                                                                                 |          |                 | 4.1                        |
| B2                                                                   | Amended to Conventional harvest systems from cable.                    |       |       |          |        |                                                                                                                 |          |                 | 9.7                        |
| TOTAL NET AREA TO BE REFORESTED:                                     |                                                                        |       |       |          |        |                                                                                                                 |          | 22.4            |                            |
| TOTAL AREA UNDER PRESCRIPTION:                                       |                                                                        |       |       |          |        |                                                                                                                 |          | 33.8            |                            |
| F.2 SOIL DISTURBANCE LIMITS                                          |                                                                        |       |       |          |        |                                                                                                                 |          |                 |                            |
| SU                                                                   | MAXIMUM ALLOWABLE SOIL DISTURBANCE WITHIN THE NET AREA TO REFOREST (%) |       |       |          |        | MAXIMUM EXTENT SOIL DISTURBANCE LIMITS MAY BE TEMPORARILY EXCEEDED TO CONSTRUCT TEMPORARY ACCESS STRUCTURES (%) |          |                 |                            |
| A2/B1                                                                | 5%                                                                     |       |       |          |        | 0%                                                                                                              |          |                 |                            |
| A1/B2                                                                | 5%                                                                     |       |       |          |        | 3%                                                                                                              |          |                 |                            |

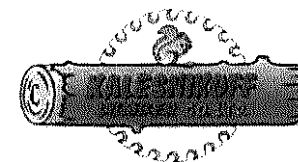
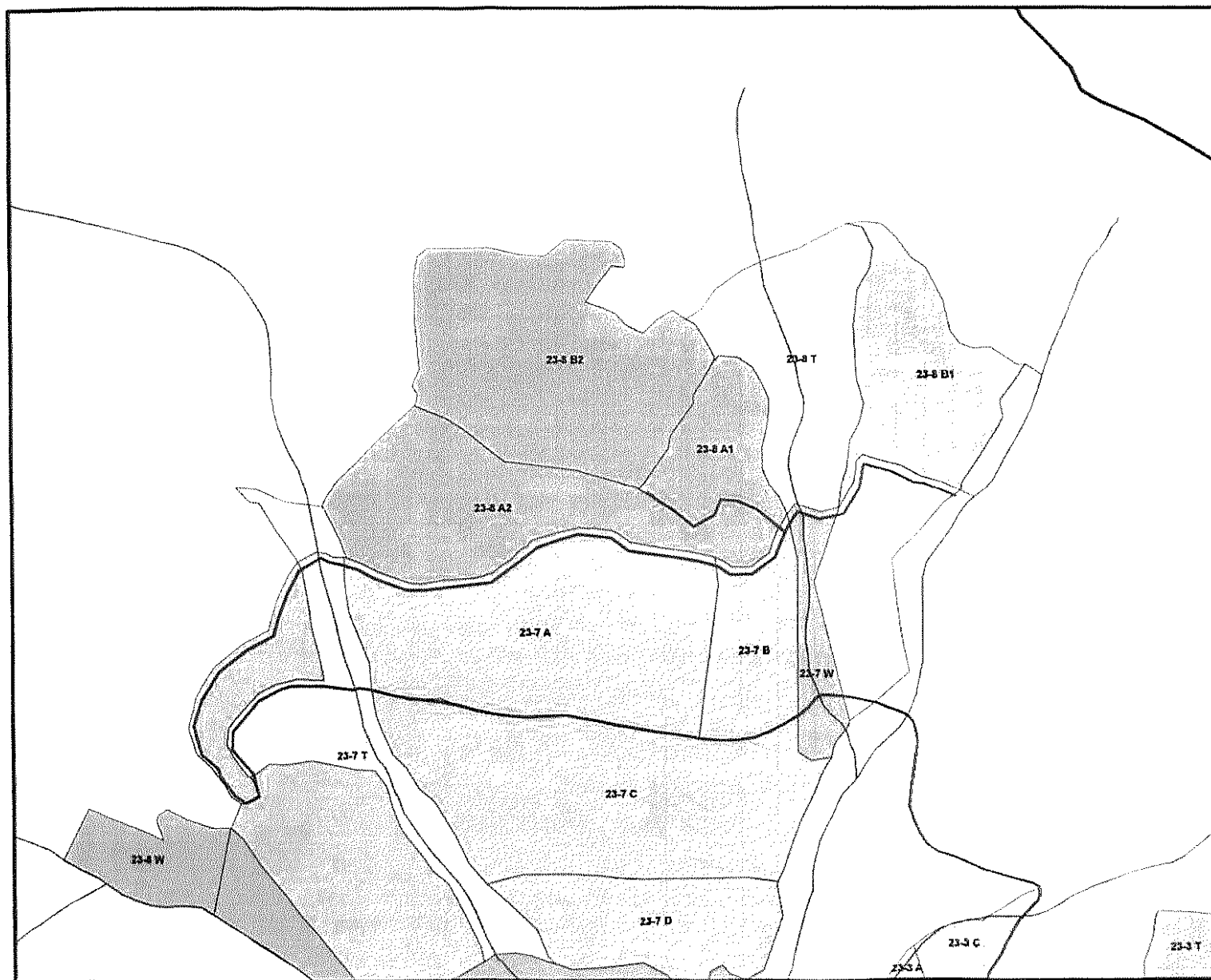
s.22

Signature

Date

June 19, 2009





*"Take Care Of The Land,  
And The Land Will Take Care Of You."*

### CP 23 Block 8 Schroeder Creek

1:5,000

### Legend

- Forest Development Unit (FDU)
  - Streams and Lakes
  - Lakes and Rivers
  - Road Permit
  - Non-Status or Not Classified
  - Forest Service Road
  - Highway
  - KLC Road Permit
  - Other Road
  - Other Licence - Road Permit
  - Free Growing
  - Temporary Reserves
  - Sufficiently Restocked
  - Not Sufficiently Restocked
  - Reserves
  - Cutting Permit Unharvested
  - Information
- TRIM2 K005

# SILVICULTURE PRESCRIPTION KALESNIKOFF LUMBER COMPANY LTD.

## A. TENURE IDENTIFICATION

|                                                                                                                                                                                                   |                                                   |                 |                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------|------------------------------------------|
| LICENSE NO.:<br>FL A30172                                                                                                                                                                         | CUTTING PERMIT:<br>23                             | BLOCK NO.:<br>8 | LICENSEE NAME:<br>Kalesnikoff Lumber Co. |
| AREA UNDER TENURE (ha):<br>39.8                                                                                                                                                                   | MAPSHEET/OPENING NUMBER:<br>82K006- 49            |                 | LOCATION:<br>Schroeder Creek             |
| UTM:<br>500121E, 5545960N                                                                                                                                                                         | LATITUDE/LONGITUDE:<br>50° 03' 50" / 117° 00' 00" |                 | ELEVATION RANGE (m):<br>1720-1980        |
| THE PROCEDURES OF THE OPERATIONAL PLANNING REGULATION HAVE BEEN FOLLOWED FOR ANY ASSESSMENTS REQUIRED FOR PROVIDING BEC AND SOIL DISTURBANCE INFORMATION REFERRED TO IN THE OPR SECTION 39(3)(a). |                                                   |                 |                                          |

## B. AREA SUMMARY

| AREA OF NO PLANNED REFORESTATION (ha) (NPR)                          |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |          |        |                                 |          |                 |                            |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|----------|--------|---------------------------------|----------|-----------------|----------------------------|
| PERMANENT ACCESS                                                     | ROCK                                                                                                                                                                                                                                                                                                                                                                                                            | WATER | SWAMP | OTHER NP | NC>4ha | RESERVES WITH NO MODIFICATIONS: | IMMATURE | OTHER (specify) | TOTAL NPR AREA             |
| 2.4                                                                  | 0                                                                                                                                                                                                                                                                                                                                                                                                               | 0     | 0     | 0        | 0      | 8.9                             | 0        | 0               | 11.3                       |
| NET AREA TO BE REFORESTED INCLUDING RESERVES WITH MODIFICATIONS (ha) |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |          |        |                                 |          |                 |                            |
| SU                                                                   | SU AREA DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                             |       |       |          |        |                                 |          |                 | NET AREA TO BE REFORESTED: |
| A                                                                    | ESSF wc4 04g 012: The harvest method for this SU will be conventional. Submesic to mesic site. Loam to SiL soils with a medium nutrient regime. Soil coarse fragment content in the top 30cm ranges from 25-80%. Aspect is SE-S-SW. Slopes average 35% and range between 15 and 64%. Terrain is continuous with long/uniform slopes.<br>01 sites are noted by the presence of oak fern. 04 sites lack oak fern. |       |       |          |        |                                 |          |                 | 10.5                       |
| B                                                                    | ESSF wc4 04: The harvest method for this SU will be cable. Submesic to mesic site. Loam soils with a medium nutrient regime. Soil coarse fragment content in the top 30cm is 65%. Aspect is SE-S-SW. Slopes average 45% and range between 25 and 67%. Terrain is continuous with long/uniform slopes.                                                                                                           |       |       |          |        |                                 |          |                 | 13.8                       |
| C                                                                    | ESSF wc4 01: The harvest method for this SU will be cable. Mesic site. ISL to SiL soils with a medium nutrient regime. Soil coarse fragment content in the top 30cm ranges from 10-20%. Aspect is SE. Slopes average 45% and range between 35 and 60%. Terrain is continuous with long/uniform slopes.                                                                                                          |       |       |          |        |                                 |          |                 | 4.2                        |
| TOTAL NET AREA TO BE REFORESTED:                                     |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |          |        |                                 |          |                 | 28.5                       |
| TOTAL AREA UNDER PRESCRIPTION:                                       |                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |          |        |                                 |          |                 | 39.8                       |

## C. OBJECTIVES

### C.1 MANAGEMENT OBJECTIVES

MANAGEMENT OBJECTIVES STATED IN THE FDP OR HLP(s):

- 2000 to 2004 Forest Development Plan: This unit is consistent with the Forest Development Plan.
- Kootenay Boundary Land Use Plan - Implementation Strategy (June 1997): This block is located within Resource Management Zone K-105 (Schroeder Creek - Integrated Resource Management Zone) and within the designated Landscape Unit K26 (McKian-Schroeder) - Intermediate BEO Assignment.
- Harvest these mature stands of Se BI for sawlogs and chips and manage for healthy, free growing stands of Se BI for the production of sawlogs and residual chip by-products.

**C.2 CONDITIONS THAT MUST EXIST AFTER HARVEST OR TREATMENT TO ACCOMMODATE KNOWN FOREST RESOURCES****C.2a WILDLIFE**

This cutting permit consists of medium to large sized cutblocks that attempt to mimic the natural disturbance regime of this area.

Resource Management Zone K-105 (Schroeder Creek): Landscape objectives that apply to the general area of this prescription include:

- Maintaining the abundance of mule deer, white-tailed deer, elk and mountain goats within the sustainable carrying capacity of their habitat. In particular, this involves maintaining priority summer habitat within upper elevation areas.
- Maintaining sufficient seasonal habitat to retain the existing grizzly bear populations.

Landscape Unit – K26 (McKian-Schroeder): Rationale for intermediate BEO Assignment includes support zone for protected area, ungulate winter range, connectivity values, old growth values, low to high density grizzly bear habitat, high fisheries values and spawning habitats, and riparian values.

The Ministry of Environment - Wildlife Distribution Mapping identifies the general area as supporting populations of plentiful grizzly bear; moderate to plentiful black bear; moderate black-tailed deer; few to moderate elk, white-tailed deer, cougar; and few mountain goat, caribou and moose.

- No ungulate sign was noted in the block. Few signs of bear scat were noted.
- Signs of woodpecker, whiskeyjack, sapsucker, grouse, and squirrel were noted in the general area. A small owl was seen in an adjacent block directly to the south.
- See Section G.1 for Leave Trees.
- Snag removal will not apply to standing snags <5 metres in height and >25cm dbh, in order to protect habitat for cavity nesters unless the snags are deemed dangerous to forestry workers or are an impediment to harvesting operations.
- The block contains 9.0 ha of area (including 0.1 ha of road) in permanent and temporary reserves. Permanent reserves (2.2 ha) consist of stands between the block and Schroeder Creek. The riparian reserve zone adjacent to Schroeder Creek is included in this reserve. Temporary reserves (6.8 ha) consist of stands adjacent to stream S6-6 (west side of block), S6-4 (east side of block), and a NC stream on the east side. Permanent and temporary reserves generally contain mature stands of Se Bl that are similar to those in the harvest area. The temporary reserve adjacent to the NC stream also contains open, uneven-aged stands of Se Bl. Most mature Se and Bl have >60% live crown ratio, and long, narrow crowns. Stems within reserves are mainly class 1 and 2 wildlife trees, with lower numbers of stems from other classes. Snags range from 1 to 30m tall.

**C.2b SENSITIVE AREAS**

There are no Sensitive Areas adjacent to this block.

**C.2c FISHERIES**

- No fish habitat occurs within the harvest unit boundaries.
- Schroeder Creek (S2) is a fish bearing stream that is 30-50m downslope from the southwest harvest boundary. No negative impacts are anticipated due to the reserve zone between the block and the stream, the reserves adjacent to streams S6-4 and S6-6, and low impacts expected from cable harvesting in SUs C and D.
- See Section E.1 for discussion of non-fish bearing streams.

**C.2d WATERSHEDS**

This unit is not within a community watershed. Schroeder Creek is a class 3 domestic watershed with 2 licensed users. See Section F.2 for terrain stability report recommendations.

**C.2e RECREATION**

The Ministry of Forests - Recreation Resource Inventory identifies the following recreational activities: mountaineering, climbing, hiking. (Recreation polygon 13010 from mapsheet 82K006)

Key features: L6 – avalanche tracks, talus, scree; E3 – coniferous forest

Feature significance: C - Moderate

Management class: 1 - Sensitive

Recreation opportunities spectrum: 2 – Semi-primitive, non-motorized

Actions planned to meet recreation objectives

- Normal forest management practices are not expected to adversely impact recreation values. No actions planned.

**C.2f BIOLOGICAL DIVERSITY**

Landscape Unit – K26 (McKian-Schroeder) – Intermediate BEO Assignment. Wildlife tree patch retention is approximately 22.4%. Refer to Section C.2a (Wildlife) for specific measures to address biodiversity.

**C.2g VISUAL RESOURCE MANAGEMENT**

A VISUAL IMPACT ASSESSMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE PROCEDURES OF THE OPERATIONAL PLANNING REGULATION AND THE PRESCRIPTION IS CONSISTENT WITH THE RESULTS AND RECOMMENDATIONS OF THE ASSESSMENT. Not Applicable.

A VIA is not required.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C.2h CULTURAL HERITAGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| No cultural heritage values were noted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>C.2i RANGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| No range values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>C.2j OTHER RESOURCES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Any trapping or guiding license holders will be notified via the forest development plan process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <u>Windthrow</u> : Moderate windthrow hazard expected. Predominant winds expected from the northwest and south. The block is partially sheltered from winds at the headwalls of the drainage. The south boundary of the block is adjacent to a proposed clearcut block. Terrain outside the southwest and east boundaries drops away from the block, providing some shelter from winds. The north harvest boundary is adjacent to open stands of Bl Se (P1), with mature stems becoming smaller in size as they approach alpine area. Favourable factors include well-drained soils in most of the unit, low to moderate stand densities, and long narrow crowns for Se Bl. |
| <u>Feathering</u> - East boundary - Subunit B1: See Section G.1 for Leave Trees within subunit B1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>C.2k CONDITIONS NOT APPLICABLE TO THIS PRESCRIPTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| THE FOLLOWING CONDITIONS WERE CONSIDERED, AND FOUND NOT TO BE APPLICABLE TO THIS PRESCRIPTION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| None identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## D. ECOLOGICAL INFORMATION AND SITE CHARACTERISTICS

| D.1 ECOLOGY AND CRITICAL SITE CONDITIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |         |                 |                                 |           |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|-----------------|---------------------------------|-----------|
| BIOGEOCLIMATIC                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |         |                 |                                 |           |
| SU                                       | SUB-UNIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ZONE | SUBZONE | VARIANT & PHASE | SITE SERIES                     | SITE TYPE |
| A                                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ESSF | wc      | 4               | 04 <sub>8</sub> 01 <sub>2</sub> | -         |
| B                                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ESSF | wc      | 4               | 04                              | -         |
|                                          | B1 - 20m feathering zone (see map)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |         |                 |                                 |           |
| C                                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ESSF | wc      | 4               | 01                              | -         |
| SU                                       | CRITICAL SITE CONDITIONS THAT AFFECT THE TIMING OF OPERATIONS AND HOW THEY AFFECT THE TIMING                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |         |                 |                                 |           |
| A                                        | <ul style="list-style-type: none"> <li>Conventional harvest</li> <li>Winter harvesting on a minimum 50cm compressible snowpack would be optimal due to a high compaction hazard. Winter harvest may not be an option due to high snow levels and access to the block from the Highway. If winter harvesting, an avalanche safety and management and control program will be implemented.</li> <li>Another option is to harvest when conditions are dry, with low ground pressure equipment and a designated skid trail system.</li> </ul> |      |         |                 |                                 |           |
| B C                                      | <ul style="list-style-type: none"> <li>Cable harvest</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |         |                 |                                 |           |
| A B C                                    | <ul style="list-style-type: none"> <li>See Section F.2 for terrain stability, stream channel and avalanche report references.</li> <li>See Section G.1 for leave tree specifications.</li> <li>Avoid harvesting during spring break-up to reduce sedimentation risk.</li> <li>Summer planting hotlift stock is recommended in order to avoid cold soils and residual snow in the spring.</li> <li>Any pile burning should be conducted in the spring or fall.</li> </ul>                                                                  |      |         |                 |                                 |           |

## E. MANAGEMENT STRATEGIES

| E.1 RIPARIAN MANAGEMENT STRATEGIES |                      |                |         |                                                                                                                                             |
|------------------------------------|----------------------|----------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|
| RIPARIAN RESERVE ZONE              |                      |                |         |                                                                                                                                             |
| RIPARIAN/ LAKE I.D.                | RIPARIAN/ LAKE CLASS | HARVESTING Y/N | SU XREF | DESCRIPTION OF THE PURPOSE AND EXTENT OF REMOVAL OR MODIFICATION OF TREES AND ANY RELATED FOREST PRACTICES IN RIPARIAN RESERVE ZONE(S)      |
| Schroeder Creek                    | S2                   | N              | -       | The 30m RRZ for Schroeder Creek is completely outside the harvest boundary. The RRZ is within a permanent reserve. No actions are required. |

| RIPARIAN MANAGEMENT ZONE                                                                                                                                                                                                                                  |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RIPARIAN/<br>LAKE I.D.                                                                                                                                                                                                                                    | HARVESTING<br>Y/N | SU<br>XREF | MANAGEMENT STRATEGIES FOR RIPARIAN OR LAKESHORE MANAGEMENT AREAS INCLUDING<br>PROTECTING STREAM BANKS (if there is no RRZ), MAINTAINING SHADE, AND DEBRIS MANAGEMENT. IF<br>FELLING AND/OR YARDING ACROSS STREAMS, INCLUDE EITHER THE RESIDUAL BASAL AREA OR DENSITY<br>FOR RMZ (S) AND LMZ (S).                                                                                                    |
| S2 -<br>Schroeder<br>Creek                                                                                                                                                                                                                                | Y                 | A          | The majority of the 20m RMZ for Schroeder Creek falls within the permanent reserve, outside the harvest area. Small portions of the RMZ fall within the harvest area. Portions of the 20m RMZ that fall within the harvest area will be harvested as per the silviculture system for SU A. See below for additional management strategies.                                                          |
| S6-1                                                                                                                                                                                                                                                      | Y                 | A          | This stream begins in the middle lower side of the block and is a tributary of Schroeder Creek. The 20m RMZ for this stream will be harvested as per SU A. See below for additional management strategies.                                                                                                                                                                                          |
| S6-6                                                                                                                                                                                                                                                      | Y                 | A C        | Stream S6-6 flows inside a temporary reserve on the west side of the block, and is a tributary of Schroeder Creek. The majority of the 20m RMZ area is within the temporary reserve and will not be harvested. Portions of the 20m RMZ for this stream that fall within the harvest area will be harvested as per SUs A and C. See below for additional management strategies.                      |
| S6-4                                                                                                                                                                                                                                                      | Y                 | B          | Stream S6-4 flows outside the east harvest boundary, adjacent to the temporary reserve, and is a tributary of Schroeder Creek. The majority of the 20m RMZ area for this stream is within the temporary reserve and will not be harvested. Portions of the 20m RMZ for this stream that fall within the harvest area will be harvested as per SU B. See below for additional management strategies. |
| NC                                                                                                                                                                                                                                                        | N                 | -          | This non-classified stream flows inside a temporary reserve on the east side of the block. It does not meet the criteria to be classified as a stream due to intermittent flow, no definable gravel bed, and a discontinuous channel. The area directly adjacent to this stream will not be harvested. See below for additional management strategies.                                              |
| A RIPARIAN ASSESSMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE PROCEDURES OF THE OPERATIONAL PLANNING REGULATION AND THE PRESCRIPTION IS CONSISTENT WITH THE RESULTS AND RECOMMENDATIONS OF THE ASSESSMENT.                                              |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| FALLING:                                                                                                                                                                                                                                                  |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>Fall timber away from (or parallel to) streams to the extent possible.</li> </ul>                                                                                                                                  |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| YARDING/SKIDDING:                                                                                                                                                                                                                                         |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>Yard/skid timber away from (or parallel to) streams to the extent possible.</li> </ul>                                                                                                                             |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| DEBRIS MANAGEMENT:                                                                                                                                                                                                                                        |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>Remove slash and debris inadvertently deposited in streams at the time of harvest, unless debris does not obstruct stream flow or its removal would cause greater damage to the stream.</li> </ul>                 |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| STREAMBANK PROTECTION:                                                                                                                                                                                                                                    |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>SU A: Stream S6-1 has only a short reach within this unit. Fall/skid timber away from this stream.</li> <li>Other streams are located within reserves, which will ensure the protection of streambanks.</li> </ul> |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| RESIDUAL PROTECTION STRATEGY:                                                                                                                                                                                                                             |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>Where harvesting occurs across stream channels, retain coniferous saplings and regen. shrubs and herbaceous vegetation within 5m of stream channels to the extent possible.</li> </ul>                             |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>E.2 GULLY MANAGEMENT STRATEGIES (COAST)</b>                                                                                                                                                                                                            |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| MANAGEMENT STRATEGIES WITH RESPECT TO: DEBRIS MANAGEMENT, PROTECTING GULLY BANKS, MINIMIZING UNDERSTOREY DAMAGE, SEDIMENT AND DEBRIS TRANSPORT POTENTIAL, AND FELLING AND YARDING ACROSS GULLIES. Not Applicable.                                         |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |
| A GULLY ASSESSMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE PROCEDURES OF THE OPERATIONAL PLANNING REGULATION AND THE PRESCRIPTION IS CONSISTENT WITH THE RESULTS AND RECOMMENDATIONS OF THE ASSESSMENT. Not Applicable.                                 |                   |            |                                                                                                                                                                                                                                                                                                                                                                                                     |

**E.3 FOREST HEALTH MANAGEMENT STRATEGIES****MANAGEMENT STRATEGIES TO REDUCE FOREST HEALTH RISKS**

- See below for *Armillaria* forest health risk.
- Minor *Bl bark beetle* damage noted on dispersed mature Bl. Red/grey attack estimated at <10% of Bl stems.
- *Spruce beetle*: High expected relative pest occurrence for Sx in the ESSF. Spruce is expected to form up to 100% of the plantation. Planting Sx in a mixture with Bl, or managing for a component of Bl naturals, will reduce the future hazard.
- *White pine (spruce) weevil*: Low expected relative pest occurrence for Sx in the ESSF. Sx is expected to form up to 100% of the plantation. Planting Sx in a mixture with Bl, or managing for a component of Bl naturals, will reduce the future hazard.
- *Mountain pine beetle*: High expected relative pest occurrence for Pl in the ESSF. Pl is an acceptable species and is not expected to be planted. Sx is expected to form up to 100% of the plantation. Mature size, 'woffy' Pl stems were noted along the top boundary.
- *Snow press/creep*: On steep slopes, plant trees on the uphill or downhill side of stumps to prevent snow damage. Plant trees adjacent to thermal masses (e.g.: coarse woody debris, stumps) and on raised microsites wherever possible to allow seedlings to benefit from early spring thaw and warming. Plantation establishment in this cold environment precludes the normal practice of planting away from stumps and roots to limit the spread of root disease.
- Ungulate browse potential appears to be low, based on low evidence of ungulate use in the area.
- 10-50% top damage noted in the form of broken tops and multiple leaders, likely due to wind/snow damage.

**ARMILLARIA ROOT DISEASE – RISK ASSESSMENT MATRIX**

| RISK FACTORS                                                 | POINTS | RELATIVE RISK | SU | COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------|--------|---------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site<br>Host factors<br>Inoculum potential<br>Disease factor |        | s.15          |    | <ul style="list-style-type: none"> <li>• No sign of <i>Armillaria</i> was noted in the stand.</li> <li>• Stumping and pushover harvesting treatments are not warranted for this block due to the low relative risk ratings and unfavourable soil hazard ratings.</li> <li>• The use of Alternative Treatments is limited by species restrictions in the ESSF wc4 subzone. Preferred species are limited to Se and Bl, which is suitable for the high elevation of this block. Therefore, up to 100% Se may be planted in this block.</li> <li>• Hand-pulling and/or pop-up spacing should be considered in the future if <i>Armillaria</i> is found in the stand. Areas with moderate to high slope values and unfavourable soil hazard ratings may be limiting factors for pop-up spacing.</li> </ul> |
| Total Points                                                 |        |               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

A FOREST HEALTH/PEST INCIDENCE ASSESSMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE PROCEDURES OF THE OPERATIONAL PLANNING REGULATION AND THE PRESCRIPTION IS CONSISTENT WITH THE RESULTS AND RECOMMENDATIONS OF THE ASSESSMENT.

**E.4 COARSE WOODY DEBRIS MANAGEMENT STRATEGIES****MANAGEMENT STRATEGIES TO ACCOMMODATE CWD OBJECTIVES, INCLUDING VOLUME AND RANGE OF PIECE SIZES, IF ANY:**

CWD levels are adequate throughout the block with estimated cover of 5-10%. Piece size range is 20-70 cm in diameter. Species include Bl Se. Pieces are mainly older stems that are losing bark, with few branches intact.

Maintain medium and coarse woody debris to help create surface roughness and provide for snow retention characteristics, reduce snow glide, provide erosion protection and protect seedlings. Where possible leave CWD across the slope to impede snow creep and glide and to assist in reforestation. Place medium woody debris and large woody debris across cable corridors especially where long gouges or linear indentations occur.

Post-harvesting coarse woody debris levels are expected to equal or exceed the current conditions. Currently, targets for coarse woody debris retention have not been defined for the Kootenay Lake Forest District. However, stand conditions should allow for a minimum volume retention of 5 m<sup>3</sup>/ha of existing downed trees and post-harvest slash and non-merchantable stems. Piece sizes should range between 10cm at the butt (logging slash) to 60 cm in diameter at the butt for existing dead and down material.

**E.5 MANAGEMENT STRATEGIES FOR ARCHAEOLOGICAL SITES**

AN ARCHAEOLOGICAL IMPACT ASSESSMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE PROCEDURES OF THE OPERATIONAL PLANNING REGULATION AND THE PRESCRIPTION IS CONSISTENT WITH THE RESULTS AND RECOMMENDATIONS OF THE ASSESSMENT.

An Archaeological Overview Assessment (AOA) has been completed for the Schroeder Creek area. The report is dated January 17, 2000 and was completed by Kutenai West Heritage Consulting Ltd. of Trail, BC. The report was a re-evaluation of the archaeological site potential of proposed forestry developments for Kalesnikoff Lumber Ltd.

Results of the AOA indicate that an Archaeological Impact Assessment will not be required.

**E.6 VEGETATION MANAGEMENT STRATEGIES**

LIVESTOCK TO BE USED FOR VEGETATION MANAGEMENT: YES: ☐ NO: ☒

## F. SOIL CONSERVATION

### F.1 HARVESTING METHOD

SU A: Conventional harvest

SU B C: Cable harvest

### HARVESTING/ MECHANICAL SITE PREPARATION CONSTRAINTS ( SEASON, ...)

- Guyline and tailhold support trees may be required in areas outside the present boundary. These areas will not exceed 0.1 ha and will be included in the NAR.
- See Section D.1 for ECOLOGY AND CRITICAL SITE CONDITIONS.

### F.2 SITE DISTURBANCE

| SU | HAZARD RATINGS<br>(if logging methods other than cable or aerial are proposed) |                      |                   | SOIL CHARACTERISTICS<br>(if temporary access structures are proposed) |         |                                                                          |                        |
|----|--------------------------------------------------------------------------------|----------------------|-------------------|-----------------------------------------------------------------------|---------|--------------------------------------------------------------------------|------------------------|
|    | SOIL COMPACTION                                                                | SURFACE SOIL EROSION | SOIL DISPLACEMENT | DEPTH TO UNFAVORABLE SUBSOIL (cm)                                     |         | TYPE OF UNFAVORABLE SUBSOIL                                              | SEDIMENT DELIVERY RISK |
|    |                                                                                |                      |                   | MIN(cm)                                                               | MAX(cm) |                                                                          |                        |
| A  | H                                                                              | H (28)               | H (22)            | 18                                                                    | 18      | 18cm - Fragmental, gravels                                               | High                   |
| B  | H                                                                              | VH (35)              | H (20)            | 58                                                                    | 58      | No unfavourable subsoil to 58cm                                          | Low                    |
| C  | H                                                                              | VH (36)              | VH (28)           | 26                                                                    | 47      | 26cm - Fragmental, gravels<br>47cm - root restrict layer due to high CF% | Low                    |

SLOPE INSTABILITY INDICATORS: Slopes > 60% in SUs B, C. Pistol butt stems.

A TERRAIN STABILITY FIELD ASSESSMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE PROCEDURES OF THE OPERATIONAL PLANNING REGULATION AND THE PRESCRIPTION IS CONSISTENT WITH THE RESULTS AND RECOMMENDATIONS OF THE ASSESSMENT.

1) The terrain stability report is titled "DETAILED TERRAIN STABILITY FIELD ASSESSMENTS - CUTTING PERMIT 23 - BLOCKS 1, 4, 3, 7 AND 8 - SCHROEDER CREEK AREA - NORTH ARM OF KOOTENAY LAKE", and is dated April 2000. The report was prepared by W.H. Wells, PAg, of Kaslo BC.

The report concludes that "the main concern about logging here is the potential for impacts on the flow regime and timing of North Fork from reduced forest cover here in addition to the removal of forest in Block 7, downslope. The plans for the areas to be cable harvested are generally appropriate for the protection of values in those areas. The areas to be ground skidded need to be looked at to ensure that wet sites are identified and protected. Random skidding is not appropriate. It was noted that Landing 9 would be better located if it were not in a gully (note: this landing does not appear on the preliminary road design, and landing 8 in the road design is not located the same as on the block map provided).

The following block management recommendations will be adhered to:

- Move landing #9 out of the gully. (This will be reconciled with road design.)
- Review conventional ground skid treatment units to ensure protection of wet sites. Lay out skid trails.
- A general recommendation for the completion of the cutting permit is to conduct an assessment of the mainstream of the channel to obtain better information about its characteristics and probable response to higher peak flows resulting from changes to surface drain following logging. Reconnaissance assessments of the middle and upper mainstream creek and of the North Fork channels were reported in Wells and Deschenes 2000. Information from a detailed assessment traverse from the lake shore to about 1300 meters in the lower mainstream creek was collected late in 1999. The results of this detailed assessment traverse were included in a draft addendum dated 12/19/2000 by W.H. Wells Consulting. The contents of this prescription comply with the draft addendum and all recommendations will be adhered to.

2) A draft Avalanche Risk Assessment for CP 23 was completed by William H. Wells consulting, dated 11/15/2000. The recommendations outlined in this report will be adhered to.

## F.2 SOIL DISTURBANCE LIMITS

MAXIMUM PROPORTION OF TOTAL AREA UNDER THE PRESCRIPTION ALLOWED FOR PERMANENT ACCESS: 6.0 %.

Total road: 1.8 ha. Road width used is 16m. Half road width was used to calculate NP for the road dividing blocks 7 and 8.

- 450m length by 16m width = 0.7 ha; 1375m length x 8m width = 1.1 ha

Total landings: 0.6 ha

- 3 @ 0.10ha = 0.3ha; 2 @ 0.15ha = 0.3ha

Roadside harvesting may be undertaken as an alternative to, or in conjunction with, constructing fixed landing sites.

Any roadside harvesting operations will not cause soil disturbance of greater than 25% of the area that is both within the net area to be reforested and used to carry out those activities, as per Section 18 of the Timber Harvesting Practices Regulation.

| SU  | MAXIMUM ALLOWABLE SOIL DISTURBANCE WITHIN THE NET AREA TO REFOREST (%) | MAXIMUM EXTENT SOIL DISTURBANCE LIMITS MAY BE TEMPORARILY EXCEEDED TO CONSTRUCT TEMPORARY ACCESS STRUCTURES (%) |
|-----|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| A   | 5                                                                      | 3                                                                                                               |
| B C | 5                                                                      | 0                                                                                                               |

## F.3 REHABILITATION TIME FOR TEMPORARY ACCESS STRUCTURES

REHABILITATION MEASURES: EXCAVATED OR BLADED TRAILS WITH SIDECUTS >30 CM WILL BE REHABILITATED TO THE STANDARDS REQUIRED UNDER SECTION 14 OF THE TIMBER HARVESTING PRACTICES REGULATION. ALSO, ANY TEMPORARY ACCESS STRUCTURES THAT HAVE BEEN REHABILITATED WILL NOT 'COUNT' TOWARDS DISTURBANCE AS MEASURED DURING A POST REHABILITATION SOIL DISTURBANCE SURVEY. MAXIMUM ALLOWABLE TIME TO COMPLETE REHAB (MEASURED FROM COMPLETION OF HARVEST): 1 YEAR.

## F.4 MANAGEMENT STRATEGIES FOR TEMPORARY ACCESS STRUCTURES

THIS PRESCRIPTION IS NOT IN CONFLICT WITH THE PROHIBITION, UNDER SECTION 7 (4), 8 (3), AND 8 (4) OF THE TIMBER HARVESTING PRACTICES REGULATION, AGAINST CONSTRUCTING BLADED OR EXCAVATED TRAILS. Not applicable

| SU  | GENERAL LOCATION (ALSO REFER TO MAP):                                                                           | MAX ALLOWABLE HEIGHT OF CUTBANKS (m) | AVERAGE HEIGHT OF CUTBANKS (m) | EQUIPMENT TO BE USED (IF OTHER THAN EXCAVATOR) |
|-----|-----------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|------------------------------------------------|
| A   | Designated trails to be evenly dispersed through units. Trails have been marked in the field but not traversed. | 0.4                                  | 0.3                            |                                                |
| B C | No bladed or excavated trails are proposed.                                                                     | -                                    | -                              |                                                |

Max trail width = 4m



## G. SILVICULTURAL SYSTEMS

| G.1 SILVICULTURAL SYSTEMS |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SU                        | SYSTEM                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A B C                     | Clearcut with reserves.            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SU                        | COMMENTS                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A B C                     | STAND STRUCTURE AND SITE CONDITION | <ul style="list-style-type: none"> <li>Post-harvest stand structure is estimated to be an even-aged stand of planted and natural <u>Se BI (PI)</u>, with leave trees as described below.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| A B C                     | LEAVE TREE SPECIES AND FUNCTIONS   | <ul style="list-style-type: none"> <li><u>Leave Trees</u>: Retain a minimum 3% of Layer 1 (&gt;12.4 cm dbh) trees in areas outside subunit B1 (see cruise compilation for total number of stems/ha). Select stems that pose a low windthrow risk, such as intermediate class stems, codominant stems or veterans. Leave trees should otherwise be healthy and well-rooted. All species are acceptable. Leave trees may be left as single trees or in groups and will be targeted to the following sites; directly below rock bluffs, on slopes &gt;80%, and on significant convex slope breaks. Where leave trees are in groups retain understory and non-merchantable trees to assist in maximizing the surface roughness in potential avalanche start zones. Leave trees will also add stand structure values and provide for insect feeding, perching and nesting values.</li> <li><u>Feathering - East boundary - Subunit B1</u>: Retain a minimum 50% of Layer 1 (&gt;12.4 cm dbh) trees within 20m of the east boundary (sub-unit B1, see map) to act as a buffer for winds and for avalanche control. This buffer will help support trees outside the harvest boundary and within the temporary reserve adjacent to stream S6-4. Select stems that pose a low windthrow risk, such as intermediate class stems, codominant stems or veterans. Leave trees should otherwise be healthy and well-rooted. All species are acceptable. Retained stems should be as uniformly spaced from one another as possible within the 20m zone, with the exception that higher concentrations of leave trees should be left directly below rock bluffs, on slopes &gt;80%, and on convex slopes. Retain understory and non-merchantable trees to assist in maximizing the surface roughness for avalanche control. Where possible on slopes &gt;80% retain high stumps (up to 1.5m). Leave trees will also add stand structure values and provide for insect feeding, perching and nesting values.</li> <li>Snag removal will not apply to standing snags &lt;5 metres in height and &gt;25cm dbh, in order to protect habitat for cavity nesters unless the snags are deemed dangerous to forestry workers or are an impediment to harvesting operations.</li> </ul> |

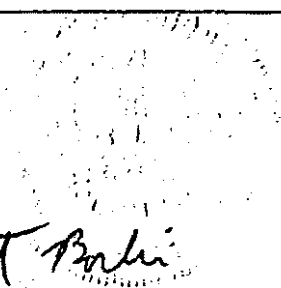

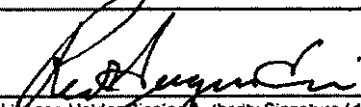

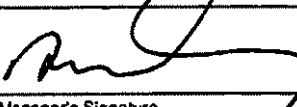
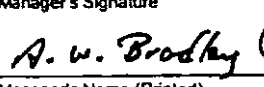
## H. SILVICULTURE PLAN

| H.1 SITE PREPARATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                          |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------|------------------|
| SU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | METHOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                          |                  |
| A<br>B<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p><u>Options:</u></p> <ul style="list-style-type: none"> <li>No site prep treatment. Plant as is.</li> <li>Pile and burn roadside and landing slash accumulations. Ensure that burn piles are a safe distance away from standing timber. Up to 20% of piles may be left unburned to contribute to wildlife habitat and coarse woody debris values.</li> <li>Broadcast burning should be avoided to maintain surface roughness and to assist with snow retention.</li> </ul> |                 |                                                          |                  |
| H.2 REFORESTATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                          |                  |
| SU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | METHOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PLANNED SPECIES | PLANNED STOCK TYPE                                       | ESTIMATE DENSITY |
| A<br>B<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Plant                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Se BI           | 1+0 PSB 415B (up to 60%)<br>1+0 PSB 410/412 (up to 100%) | 1400             |
| SPECIAL CONSIDERATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                          |                  |
| <ul style="list-style-type: none"> <li>Target high spots for planting in wetter areas.</li> <li>See Section E.3 for measures to minimize snow creep/press.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                          |                  |
| H.3 BRUSHING (HAZARD, SPECIES, METHODS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                          |                  |
| <p><b>Future Brush Hazard Potentials:</b></p> <p><u>SU A:</u> High. Current vegetation cover is high due to patchy to continuous rhododendron and huckleberry cover.</p> <p><u>SU B:</u> High. Current vegetation cover is moderate to high due to patchy to continuous rhododendron cover.</p> <p><u>SU C:</u> High. Current vegetation cover is moderate to high due to patchy to continuous rhododendron cover.</p> <p><b>Species Complex:</b></p> <p><u>SU A:</u> Rhododendron, huckleberry, foamflower (oak fern).</p> <p><u>SU B:</u> Rhododendron, huckleberry, foamflower</p> <p><u>SU C:</u> Rhododendron, oak fern, huckleberry, foamflower.</p> <p><b>Brushing Methods:</b> Should brushing be necessary, then manual treatments are the preferred methods.</p> <p><b>Anticipated Timing/Constraints:</b> Treatment needs will be assessed through periodic walkthroughs and silviculture surveys. Treatment timing will be prescribed at the time of brush assessment.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                          |                  |

# I. STOCKING REQUIREMENTS

| I.1 ASSESSMENT DATES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                    |                                        |                    |                                 |                                                             |                           |                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|----------------------------------------|--------------------|---------------------------------|-------------------------------------------------------------|---------------------------|------------------------------------------|
| SU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | REGENERATION DATE (YEARS) |                    | FREE GROWING ASSESSMENT PERIOD (years) |                    |                                 |                                                             |                           |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |                    | EARLY                                  |                    | LATE                            |                                                             |                           |                                          |
| A B C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                         |                    | 12                                     |                    | 20                              |                                                             |                           |                                          |
| I.2 STOCKING REQUIREMENTS FOR SILVICULTURAL SYSTEMS OTHER THAN SINGLE TREE SELECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                    |                                        |                    |                                 |                                                             |                           |                                          |
| SU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PREFERRED SPECIES         |                    | ACCEPTABLE SPECIES                     |                    | POST SPACING DENSITY (stems/ha) |                                                             | MAX CONIFEROUS (stems/ha) |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SPECIES                   | MINIMUM HEIGHT (m) | SPECIES                                | MINIMUM HEIGHT (m) | MIN                             | MAX                                                         |                           |                                          |
| A B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Se Bi <sup>1</sup>        | 0.8                | PI                                     | 1.6                | 700                             | 1800                                                        | 10,000                    |                                          |
| SU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | WELL SPACED TREES/ha      |                    |                                        |                    | MINIMUM PRUNING HEIGHT          | RESIDUAL STAND STRUCTURE (other than single tree selection) |                           | HEIGHT RELATIVE TO COMPETITION (% OR cm) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TARGET PREF & ACC         | MINIMUM PREF & ACC | MIN PREF                               | MIN HORIZ DISTANCE |                                 | BA (m <sup>2</sup> /ha)                                     | DENSITY (SPH)             |                                          |
| A B C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1200                      | 700                | 600                                    | 2.0                | -                               | -                                                           | -                         | 125                                      |
| Comments: <ul style="list-style-type: none"> <li>1 Bi is a preferred species on ESSF wc4 04 sites because it was present in the existing stand and is expected to perform well on this site.</li> <li>The licensee will monitor the stand for mortality due to root disease. If the mortality due to root disease results in the non-achievement of a free growing crop, then the free-growing standards may be revised provided all approved operations intended to abate the risk of root disease impact have been fully implemented.</li> <li>This unit may be declared free growing as early as 5 growing seasons following plantation establishment in the ICH, and 8 growing seasons in the ESSF, provided that the established plantation meets all other free to grow requirements.</li> <li>The specified number for maximum density is subject to amendment following the application of the Chief Forester's Policy on Maximum Density and the Stand Density Management Guidebook and, upon analysis, may be revised upward or downwards, on or before June 15, 2000.</li> <li>Acceptability criteria for preferred and acceptable species are as per the <i>Establishment to Free Growing Guidebook - Nelson Forest Region - April 1995</i>.</li> </ul> |                           |                    |                                        |                    |                                 |                                                             |                           |                                          |

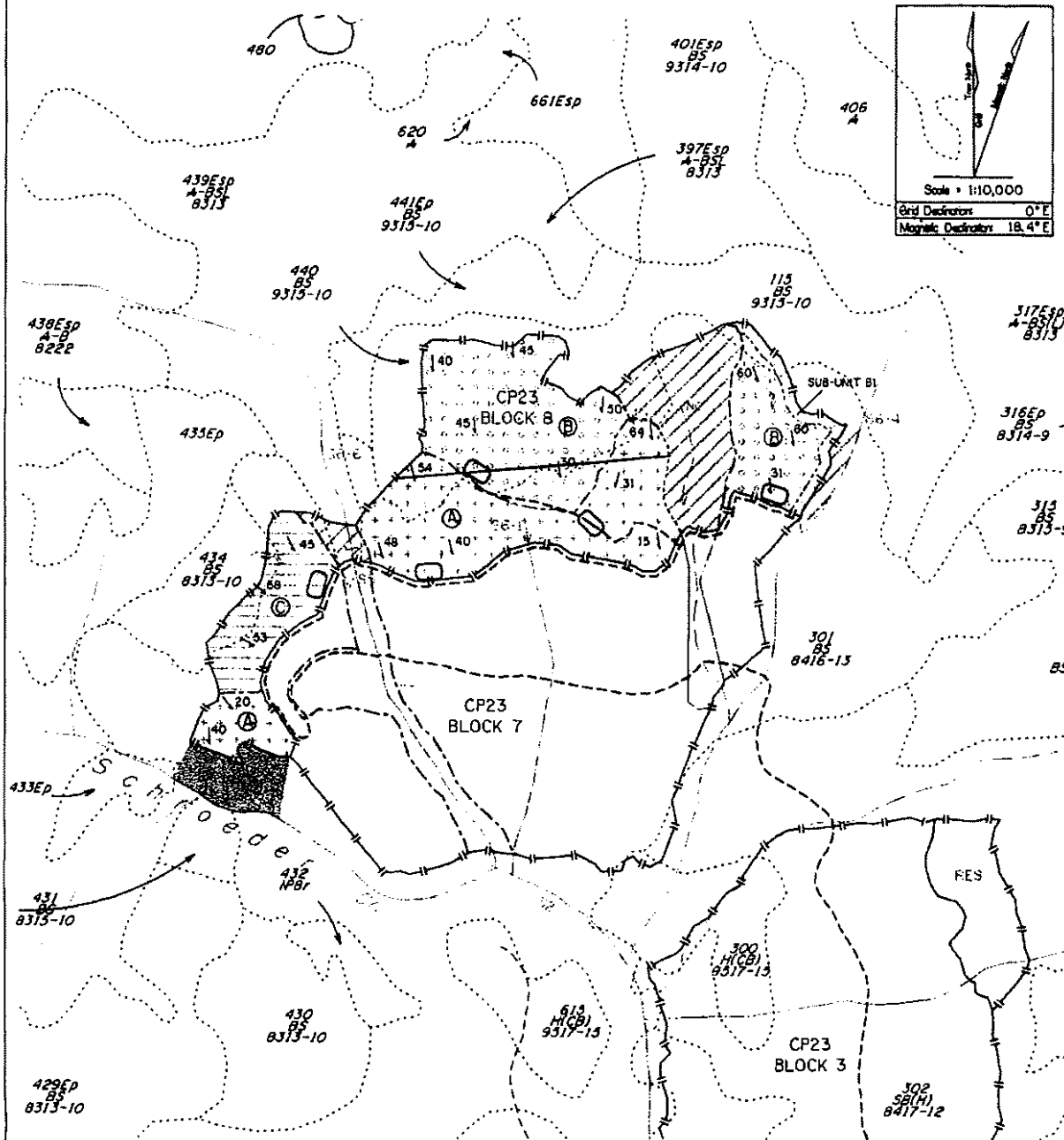
# J. ADMINISTRATION

|                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRESCRIPTION PREPARED BY (RPF SIGNATURE AND SEAL):</b>                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                   |
| Robert J. Borhi<br>RPF Name (Printed)<br><br>Date: December 21, 2000      RPF No: 3026                                                                                                                                                                                                                                                             | <br><br>RPF Signature and Seal                                                               |
| <b>MAJOR LICENSEE SIGNING AUTHORITY:</b>                                                                                                                                                                                                                                                                                                           | <b>PRESCRIPTION APPROVED BY:</b>                                                                                                                                                                                                                                  |
| <br>License Holder Signing Authority Signature (delete if not applicable)<br><br>License Holder Signing Authority Name (Printed) (delete if not applicable)<br>Date: Jan 4, 2001 | <br>District Manager's Signature<br><br>District Manager's Name (Printed)<br>Date: 2001/12/19 |
|                                                                                                                                                                                                                                                                                                                                                    | <b>PRESCRIPTION APPROVED BY:</b>                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                    | Designated Environment Official's Signature (If Applicable)<br><br>Designated Environment Official's Name (Printed)<br><br>Date:                                                                                                                                  |

|                                                        |
|--------------------------------------------------------|
| Inspection Priority<br>Very high      01/11/28<br>Date |
|--------------------------------------------------------|

# Silviculture Prescription

|                                                 |                                                                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|                                                 | SUA - ESSFwc4-01,04 <sub>B</sub> - 10.5ha net - High Compaction, Soil Displacement, and Surface Erosion Hazards |
|                                                 | SUB - ESSFwc4-04 - 13.8ha net - Very High Surface Erosion Hazard, High Compaction and Soil Displacement Hazards |
|                                                 | SUC - ESSFwc4-01 - 4.2ha net - Very High Soil Displacement and Surface Erosion Hazards, High Compaction Hazard  |
|                                                 | Temporary Reserve - 6.8ha                                                                                       |
|                                                 | Permanent Reserve - 2.2ha                                                                                       |
| Silviculture System: Clearcut with Reserves     |                                                                                                                 |
| Harvest Method: SU B,C Cable; SU A Conventional |                                                                                                                 |



| KALESNIKOFF LUMBER COMPANY LTD. |                                | CP23                             |
|---------------------------------|--------------------------------|----------------------------------|
| Tenure: FL A30172               | Block: 8                       | Location: Schroeder Creek        |
| Licensee: KLC                   | Region: Nelson                 | UTM Reference: 500121E, 5545960N |
| BCGS Mapsheet: 82K006           | Air Photo Reference: 88051-167 | Elevation Range: 1720-1980m      |
| Date:                           | Revised:                       | Net Area: 28.5ha                 |
| Gross Area: 39.8                |                                |                                  |
| Cutblock Boundary               | Treatment Boundary             | Designated Skid Trail            |
| Existing Road                   | Existing Skid Trail            | Proposed Road                    |
| Backspar Trail                  | Bridge                         | Skid Bridge                      |
| Landing                         | Culvert                        | Traverse Station                 |
| Skidding Direction              | Yarding Direction              | Swamp                            |
| Creek                           | Intermittent Creek             | Windthrow                        |
| Rock                            | Gully                          | Seep                             |
| Slope Break                     | Slope Direction and %          |                                  |
| Sub-unit Boundary               |                                |                                  |

Part 2 Page 5

FNR-2013-00

# **A Field Guide for Site Identification and Interpretation for the Nelson Forest Region**

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Land Management  
Handbook NUMBER **20**  
Part 2

**May 1992**

1996 Reprinted with corrections

2002 Reprinted with update



**BRITISH  
COLUMBIA**

Ministry of Forests  
Forest Science Program

## ESSFwc4

### Variant Summary

#### Selkirk Wet Cold Engelmann Spruce - Subalpine Fir Variant

**Location:** Upper slopes in the Monashee and Selkirk mountains south of Revelstoke.

**Elevation range:** 1650 to 1950 m (south aspect); 1600 to 1950 m (north aspect).

**Climate:** Moist Climatic Region; no climate data. The ESSFwc4 is likely colder and wetter, with more snow than the ICH and the ESSFwc1; drier, with less snow than the ESSFvc1; and wetter, with more snow than the ESSFdc1.

**Soils, geology, and landforms:** Common rock types in the Selkirk Mountain areas of the ESSFwc4 include granodiorite, quartz diorite, shale, argillite, quartzite, and slate. In the Monashee Mountain area of this variant, bedrock types consist of gneiss, schist, granite, granodiorite, quartz diorite, basalt, and andesite. Morainal soils with loamy to silty surface textures occur on lower to upper slopes. Colluvial soils with silty textures are found on upper, steeper slopes. These shallow to bedrock soils are more frequent in this variant than in the ESSFwc1. Fluvial soils with silty or loamy surface textures occur on lower to level slopes. Depressional sites often have organic soils. Glaciofluvial soils with variable textures are found on toe and lower slope positions. Seepage is common on mid to lower slopes.

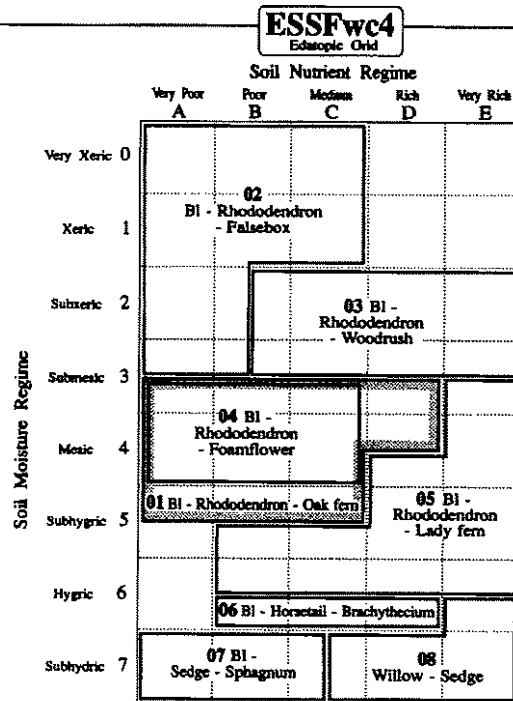
**Zonal vegetation:** Climax zonal sites have stands of Bl and Se. White-flowered rhododendron, black huckleberry, and gooseberry are common shrubs. Herbs include oak fern, one-leaved foamflower, Sitka valerian, and five-leaved bramble.

#### Distinguishing the ESSFwc4 from adjacent subzones/variants

|                                    |                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In the ESSFwc1<br>most sites have: | - more Hw, Cw, thimbleberry, false Solomon's-seal,<br>bunchberry, and sweet-scented bedstraw<br>- less white-flowered rhododendron, small-flowered<br>woodrush, and mountain hairgrass                  |
| wet sites have:                    | - devil's club and cow-parsnip                                                                                                                                                                          |
| In the ESSFvc<br>most sites have:  | - Hm<br>- more false Solomon's-seal and rosy twistedstalk                                                                                                                                               |
| dry sites have:                    | - partridgefoot<br>- no Pl or grouseberry                                                                                                                                                               |
| In the ESSFwm<br>most sites have:  | - Lw and Pw<br>- no small-flowered woodrush or juniper haircap moss<br>- more false azalea<br>- less mountain hairgrass, Sitka valerian, and Indian<br>hellebore                                        |
| wet sites have:                    | - bluejoint<br>- less five-stamened mitrewort, arrow-leaved groundsel,<br>and globeflower                                                                                                               |
| In the ESSFdc1<br>most sites have: | - trapper's tea<br>- no spiny wood fern, lady fern, small twistedstalk, or<br>oval-leaved blueberry<br>- more Pl, grouseberry, and arctic lupine<br>- less black gooseberry and small-flowered woodrush |
| dry sites have:                    | - more common juniper and pinegrass                                                                                                                                                                     |

**Forest characteristics:** Relatively long fire return periods have led to few stands with seral species. Stand replacement often occurs through insects, disease, and windthrow. The transition to the parkland, starting at about 1900 m, is critical since regeneration becomes very difficult and tree growth is very slow. The presence of mountain-heathers and tree islands indicate the parkland. In the extreme southern Selkirks, south of Nelson, bear-grass may dominate the understory vegetation. This is indicative of a drier, warmer climate. However, due to the lack of sufficient sampling in this area, a separate unit has not been identified.

**Wildlife habitat:** Extensive old-growth forests support a range of dependent wildlife species. Maintenance of enough old growth to preserve these species is important. Maintenance of insect-feeding birds through preservation of snags and large woody debris will reduce the incidence of insect pest outbreaks.



Shading used where considerable site series overlap occurs.

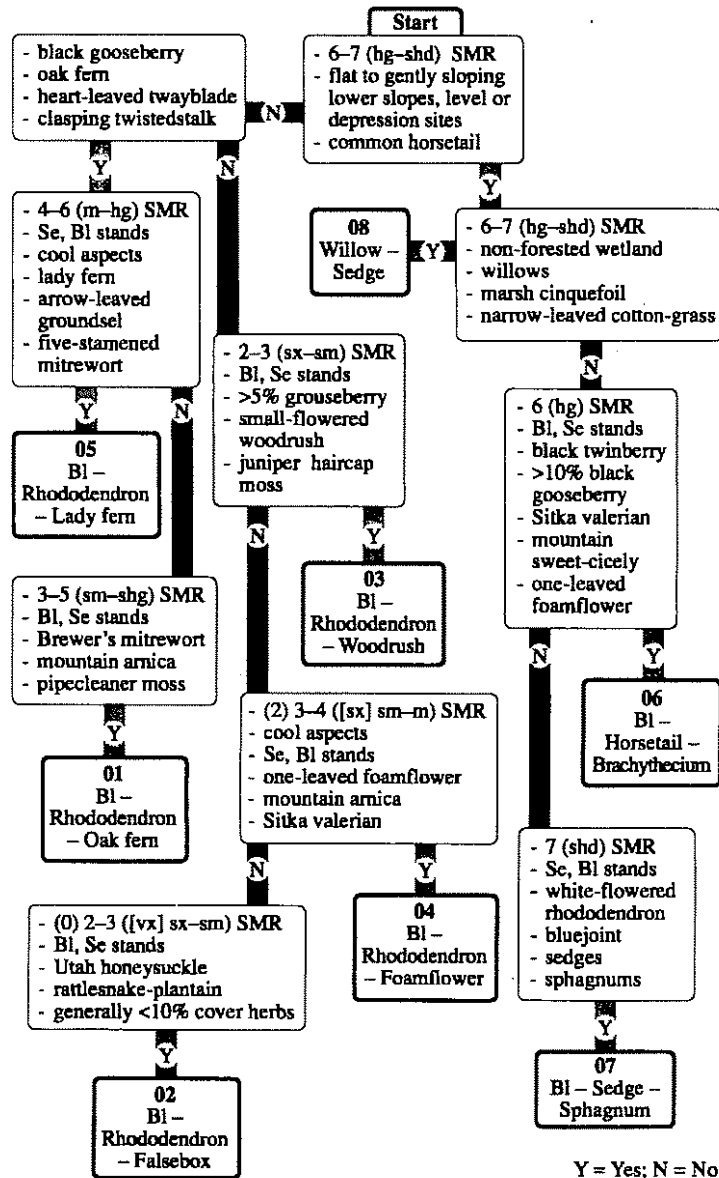


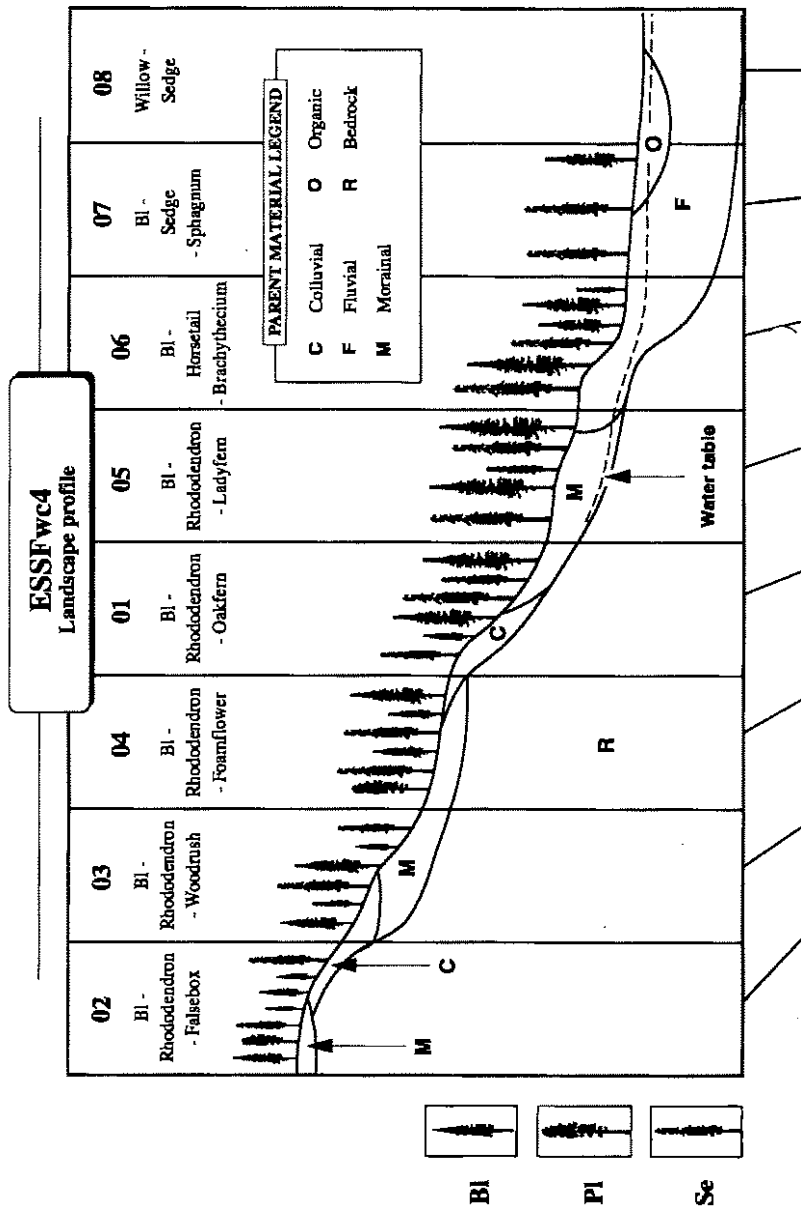
# ESSFwc4 Vegetation Table

|                                                                       | Site Series                                         | 02 | 03 | 04 | 01 | 05 | 06 | 07 | 08 |                             |
|-----------------------------------------------------------------------|-----------------------------------------------------|----|----|----|----|----|----|----|----|-----------------------------|
| TREES                                                                 | <i>Pinus contorta</i>                               |    |    |    |    |    |    |    |    | lodgepole pine              |
|                                                                       | <i>Picea engelmannii</i>                            |    |    |    |    |    |    |    |    | Engelmann spruce            |
| SHRUBS                                                                | <i>Abies lasiocarpa</i>                             |    |    |    |    |    |    |    |    | subalpine fir               |
|                                                                       | <i>Pseudotsuga myricinifolia</i>                    |    |    |    |    |    |    |    |    | falsebox                    |
|                                                                       | <i>Vaccinium membranaceum</i>                       |    |    |    |    |    |    |    |    | black huckleberry           |
|                                                                       | <i>Rhododendron albiflorum</i>                      |    |    |    |    |    |    |    |    | white-flowered rhododendron |
|                                                                       | <i>Lonicera utahensis</i>                           |    |    |    |    |    |    |    |    | Utah honeysuckle            |
|                                                                       | <i>Sorbus sitchensis</i>                            |    |    |    |    |    |    |    |    | Sitka mountain-ash          |
|                                                                       | <i>Ribes lacustre</i>                               |    |    |    |    |    |    |    |    | black gooseberry            |
|                                                                       | <i>Vaccinium ovalifolium</i>                        |    |    |    |    |    |    |    |    | oval-leaved blueberry       |
|                                                                       | <i>Salix</i> spp.                                   |    |    |    |    |    |    |    |    | willows                     |
|                                                                       | <i>Orthilia secunda</i>                             |    |    |    |    |    |    |    |    | one-sided wintergreen       |
| HERBS                                                                 | <i>Vaccinium scoparium</i>                          |    |    |    |    |    |    |    |    | grouseberry                 |
|                                                                       | <i>Luzula parviflora</i>                            |    |    |    |    |    |    |    |    | small-flowered woodrush     |
|                                                                       | <i>Arnica latifolia</i>                             |    |    |    |    |    |    |    |    | mountain arnica             |
|                                                                       | <i>Rubus pedatus</i>                                |    |    |    |    |    |    |    |    | five-leaved bramble         |
|                                                                       | <i>Mitella breuervii</i>                            |    |    |    |    |    |    |    |    | Brewer's milkwort           |
|                                                                       | <i>Trientalis trifoliata</i> var. <i>unifoliata</i> |    |    |    |    |    |    |    |    | one-leaved foamflower       |
|                                                                       | <i>Valeriana sitchensis</i>                         |    |    |    |    |    |    |    |    | Sitka valerian              |
|                                                                       | <i>Streptopus amplexifolius</i>                     |    |    |    |    |    |    |    |    | clasping twistedstalk       |
|                                                                       | <i>Gymnocarpium dryopteris</i>                      |    |    |    |    |    |    |    |    | oak fern                    |
|                                                                       | <i>Veratrum viride</i>                              |    |    |    |    |    |    |    |    | Indian hellebore            |
|                                                                       | <i>Thalictrum occidentale</i>                       |    |    |    |    |    |    |    |    | western meadowrue           |
|                                                                       | <i>Athyrium filix-femina</i>                        |    |    |    |    |    |    |    |    | lady fern                   |
|                                                                       | <i>Senecio triangularis</i>                         |    |    |    |    |    |    |    |    | arrow-leaved groundsel      |
|                                                                       | <i>Lycopodium annotinum</i>                         |    |    |    |    |    |    |    |    | stiff clubmoss              |
|                                                                       | <i>Osmorhiza chilensis</i>                          |    |    |    |    |    |    |    |    | mountain sweet-cloak        |
|                                                                       | <i>Equisetum arvense</i>                            |    |    |    |    |    |    |    |    | common horsetail            |
|                                                                       | <i>Calamagrostis canadensis</i>                     |    |    |    |    |    |    |    |    | bluejoint                   |
|                                                                       | <i>Carex</i> spp.                                   |    |    |    |    |    |    |    |    | sedges                      |
| MOSES, LICHENS AND LIVERWORTS                                         | <i>Cladonia</i> spp.                                |    |    |    |    |    |    |    |    | cladonia                    |
|                                                                       | <i>Rhytidopseis robusta</i>                         |    |    |    |    |    |    |    |    | pipecleaner moss            |
|                                                                       | <i>Polypodium juniperinum</i>                       |    |    |    |    |    |    |    |    | juniper haircap moss        |
|                                                                       | <i>Barbilophzia lyopodioides</i>                    |    |    |    |    |    |    |    |    | common leafy liverwort      |
|                                                                       | <i>Mnium</i> spp.                                   |    |    |    |    |    |    |    |    | leafy mosses                |
|                                                                       | <i>Sphagnum</i> spp.                                |    |    |    |    |    |    |    |    | sphagnum                    |
| Approximate Cover Classes: □ <1% □ 1 - 7% □ 7 - 16% □ 15 - 25% □ >25% |                                                     |    |    |    |    |    |    |    |    |                             |

# ESSFwc4

## Site Series Flowchart





| ESSH-wc4 Environmental Table <sup>a</sup>              |                                                                                                     |                        |                     |                                                    |                                                                                                       |               |                                                                |                                                          |  |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------|---------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------|----------------------------------------------------------|--|
| Site series                                            | 02                                                                                                  | 03                     | 04                  | 01                                                 | 05                                                                                                    | 06            | 07                                                             | 08                                                       |  |
| Number of plots                                        | 10                                                                                                  | 4                      | 5                   | 28                                                 | 5                                                                                                     | 1             | 2                                                              | 4                                                        |  |
| Soil moisture regime <sup>a</sup><br>(SMR)             | (0)2-3<br>(vx)3x-sm                                                                                 | 2-3<br>sx-sm           | (2)3-4<br>(sx)sm-m  | (2)3-5<br>(sx)sm-shg                               | 4-6<br>m-hg                                                                                           | 6<br>hg       | 7<br>shd                                                       | 6-7<br>hg-shd                                            |  |
| Aspect                                                 | variable                                                                                            | variable               | cool                | variable                                           | cool                                                                                                  | variable      | n.a.                                                           | n.a.                                                     |  |
| Slope gradient %                                       | variable                                                                                            | 0-40                   | 25-70               | variable                                           | 10-25                                                                                                 | 0-20          | 0                                                              | 0                                                        |  |
| Slope position                                         | upper-mid<br>(crest)                                                                                | mid-upper              | mid (lower)         | variable                                           | variable                                                                                              | lower-level   | lower-level                                                    | level,<br>depression                                     |  |
| Parent material                                        | C,M                                                                                                 | M(C)                   | C,M                 | M,C,F                                              | M(C,F)                                                                                                | F             | O,F                                                            | O,M,F                                                    |  |
| Soil texture<br>coarse fragments %<br>(min.-mean-max.) | L,C(\$)<br>30-50-70                                                                                 | L,\$<br>43-47-50       | L,\$<br>30-36-40    | L(\$,C)<br>14-32-55                                | \$,L<br>30-41-53                                                                                      | C<br>15-15-15 | \$,\$<br>0                                                     | \$,L<br>0-10-20                                          |  |
| Humus form — LFH<br>thickness cm<br>(min.-mean-max.)   | L,S(\$)<br>45-67-90                                                                                 | L(\$,\$)<br>63-67-70   | L(\$,C)<br>40-55-67 | L,S(\$,C)<br>23-49-80                              | L<br>47-49-55                                                                                         | L<br>30-30-30 | \$,\$<br>0                                                     | L(\$)<br>15-27-27                                        |  |
| Important site features                                | Mor<br>2-6-13                                                                                       | Moder,<br>Mor<br>1-2-3 | Mor<br>1-3-6        | Mor (Moder)<br>2-7-30                              | Mor<br>2-5-10                                                                                         | Mor<br>4      | saturated<br>Mors<br>17-48-80                                  | saturated<br>Mors<br>4-13-26                             |  |
|                                                        | generally,<br>steeply<br>sloping;<br>restricting<br>layers<br>common;<br>very low<br>cover of herbs | —                      | —                   | some sites<br>with temporary<br>seepage<br><100 cm | some sites<br>with seepage<br><100 cm;<br>if not on a<br>cool aspect,<br>then affected<br>by cold air | —             | water table<br>near surface<br>(<30 cm);<br>organic<br>veneers | poorly drained<br>open sites;<br>some organic<br>veneers |  |

<sup>b</sup> Values in brackets less common.

<sup>a</sup> Environmental features contained in this table are defined in Section 3.4.4.

| ESSFWc4<br>Management Interpretations <sup>a</sup> |                 |                                                                                                                 |                            |                             |                                                      |                                                                 |                                                                                                                                                                             |
|----------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site series                                        | Number of plots | Common seedling growth limiting factors <sup>a,b</sup>                                                          | Relative tree productivity |                             | Vegetation potential - common complexes <sup>c</sup> | Road drainage control <sup>d</sup> (see cautions <sup>a</sup> ) | Common site sensitivities (see cautions <sup>a,e</sup> )                                                                                                                    |
|                                                    |                 |                                                                                                                 | Gross volume               | Growth class (tree species) |                                                      |                                                                 |                                                                                                                                                                             |
| 02                                                 | 10              | Cold air temp., Dry soils, Nutrients (on clay soils)                                                            | Low                        | Medium (16, Se)             | Low - ericaceous shrub, fireweed                     | High                                                            | H compaction hazard on clayey soils; H surface erosion and forest floor displacement hazard on moderate slopes; H displacement hazard on very steep slopes                  |
| 03                                                 | 4               | Cold air temp., Cold soil, Nutrients                                                                            | Med.                       | Good (16, Se)               | Low - ericaceous shrub, fireweed                     | High                                                            | H forest floor displacement and surface erosion hazard on moderate and steeper slopes                                                                                       |
| 04                                                 | 5               | Cold soil, Cold air temp., Vegetation, Nutrients (on slopes >30cm)                                              | Med.                       | Good (18, Se)               | Medium - ericaceous shrub, fireweed                  | High                                                            | H compaction hazard on silty soils; H surface erosion & forest floor displacement hazard; H displacement hazard on steep slopes; H mass wasting hazard on very steep slopes |
| 01                                                 | 28              | Cold soil, Cold air temp., Vegetation, Nutrients (where C.F. 30-70% on slopes >30% or C.F. <30% on slopes >60%) | Med.                       | Good (18, Se)               | Medium - ericaceous shrub, fireweed                  | Very high                                                       | Conserve limited organic matter on moderate and steep slopes; Special road construction/maintenance on very steep slopes                                                    |

|    |   |                                                                      |          |                          |                                                     |           |                                                                                                          |                                                                                                                                                                                                     |
|----|---|----------------------------------------------------------------------|----------|--------------------------|-----------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 05 | 5 | Cold soil, Vegetation, Cold air temp., Nutrients (on coarsest soils) | Med.     | Good (18, Se)            | Medium - ericaceous shrub, fireweed, subalpine herb | Very high | -                                                                                                        | -                                                                                                                                                                                                   |
| 06 | 1 | Cold soil, Cold air temp., Vegetation, Nutrients                     | Med.     | Good (18, Se)            | High - fireweed, subalpine herb, mixed shrub        | Very high | H mass wasting and forest floor displacement hazard on all sites; H compaction hazard on clayey soils    | Windthrow hazard; Water table may rise post-harvest; Frost prone sites; Conserve organic matter; Special road construction/maintenance; Random machine travel on snowpack on clayey soils; Riparian |
| 07 | 2 | Cold soil, Wet soil, Cold air temp., Vegetation                      | Very low | Low <sup>g</sup> (4, Se) | High - reedgrass                                    | Very high | H surface erosion and mass wasting hazard on all sites; H compaction and displacement hazard on organics | No timber values; Random machine travel on snowpack on organics; Special road construction/maintenance; Riparian                                                                                    |
| 08 | 4 | Cold soil, Wet soil, Cold air temp.                                  | n.a.     | n.a.                     | Medium - bog                                        | Very high | H compaction and displacement hazard on organics                                                         | No timber values; Riparian                                                                                                                                                                          |

<sup>a</sup> Caution: Based on sample data, some interpretations expected to vary with individual site conditions. Use of original interpretive tools is necessary; these interpretations are presented here to "red flag" common concerns. This table outlines key considerations that should go into management decisions. Rationale and interpretive tools are discussed in Section 3.6.

<sup>b</sup> These include air temperature, soil temperature, vegetation, soil moisture, and soil nutrients; use of SYTEPREP recommended, see Section 3.6.1. C.F. = coarse fragments.

<sup>c</sup> Complexes described in Newton and Comeau (1990).

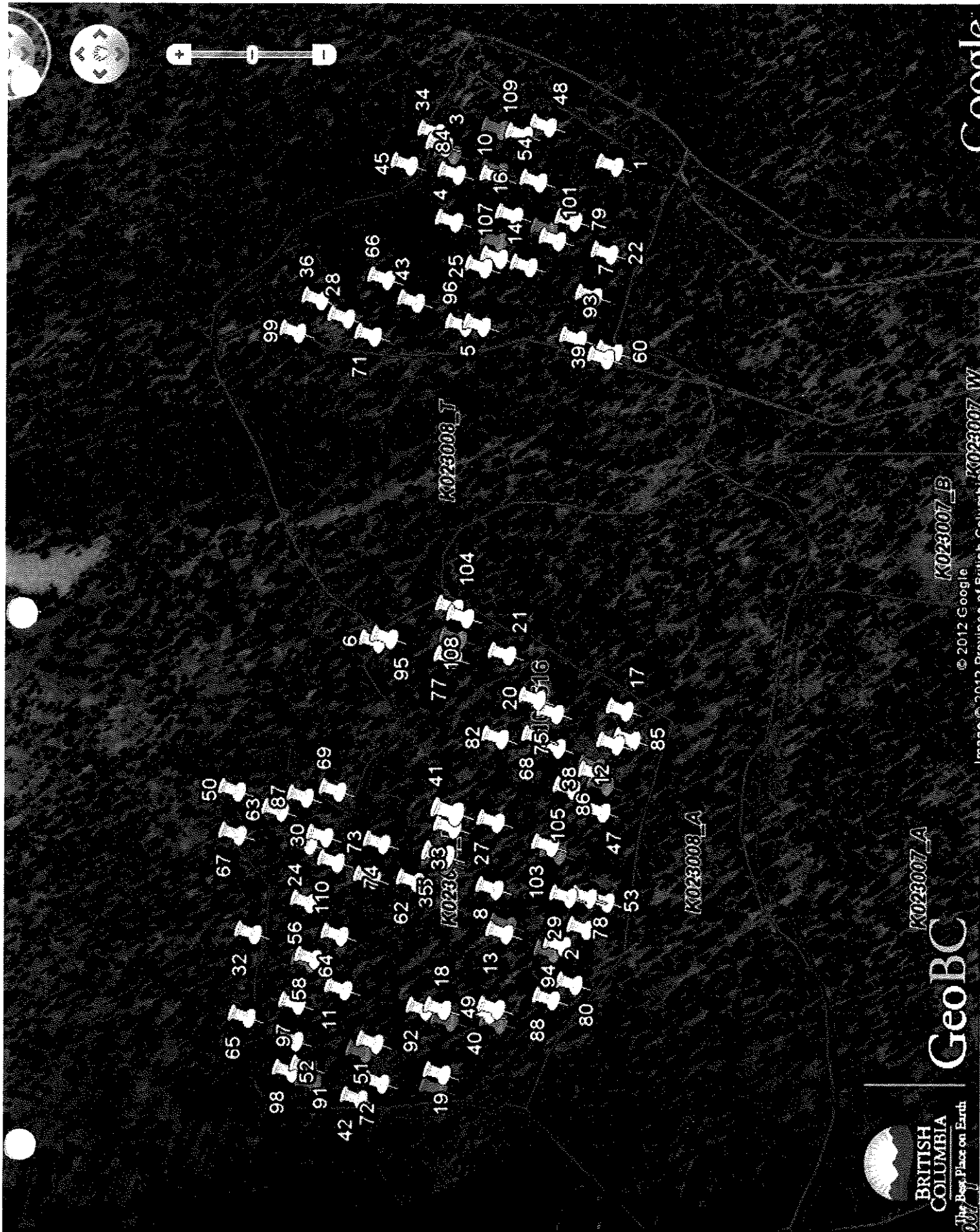
<sup>d</sup> Caution: This is presented here to "red flag" common drainage needs and is not intended to substitute for site specific engineering interpretations, see Section 3.6.4.

<sup>e</sup> Caution: Site sensitivity keys must be used with your site data for the FHSF; see Section 3.6.5.

<sup>f</sup> H = high, 30 - 45% = moderate slope, 45 - 60% = steep slope, >60% = very steep slope.

<sup>g</sup> Partial cutting or no harvesting recommended where regeneration restricted to tree islands (above approximately 1 900 m).

<sup>h</sup> Sample size less than five plots for site index determination.

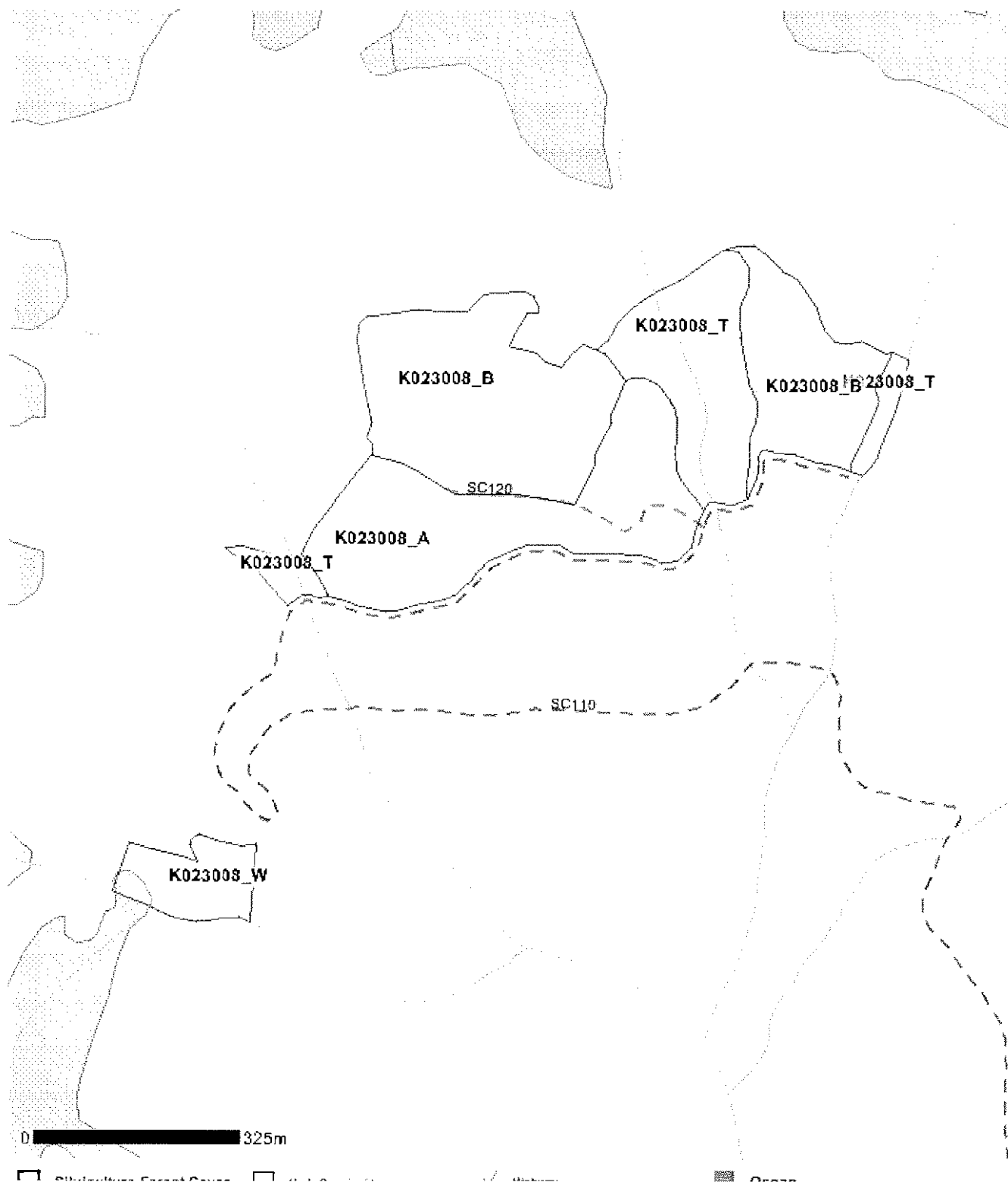


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**District:** DKL - Kootenay Lake Forest District  
**Location:** SCHROEDER CREEK  
**Client:** KALESNIKOFF LUMBER CO. LTD.  
**Operation:** KALESN - 00  
**Date:** 2010-11-01

**Licence:** A30172  
**CP/Mark:** 23/FE6023  
**Block:** 8

**Opening Num:** 82K 006 0.0 49  
**Gross Area:** 33.8





## Detailed Chronology DKL -29730

| Date          | Person                                       | Action                                                                                                                                                                                                                       |
|---------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2006-07-01    | MacDonald Creek Logging                      | Contractor starts logging on CP.                                                                                                                                                                                             |
| 2007-07-04    | FO Justin Dexter                             | s.22, s.15 completes a harvest inspection on the uncompleted block. Pictures show that the area of concern was not logged in 2007. (Appendix 1)                                                                              |
| 2009-06-19    | Stan Hadikin                                 | SP amendment #2 changes SU B unlogged area to conventional logging (Appendix 2)                                                                                                                                              |
| 2009-07       | Hlookoff Logging                             | s.22, s.15 supervisor, starts logging the remainder of the block. The start date is between July 9 <sup>th</sup> and July 22 <sup>nd</sup> and the block is complete by August 17, 2009                                      |
| 2009-08-17    | Stan Hadikin                                 | Final KLC inspection is completed. Trail deactivation still required but site disturbance was not identified as a concern at this time. (Appendix 2)                                                                         |
| 2011-08-29    | Peter Jordan, FO Cosens & FO Roenspiess      | Helicopter pass identified potential concern for Schroeder creek block and 3 pictures were taken and given to FO Upward and Mike Curran, PhD. (Appendix 3)                                                                   |
| 2011-09-22    | FO Upward, Mike Curran, FO Cosens, FO Herman | Soil Disturbance survey completed under the supervision of Mike Curran, PhD, soil specialist. Photos were taken by Mike Curran and FO Herman. Suspected contravention is determined and report is produced. (Appendix 2 & 3) |
| 2011-10-19    | FO Upward                                    | Email to s.22, s.15 regarding CIMS inspection and potential contravention of soil disturbance. (Appendix 1)                                                                                                                  |
| 2012-01-25    | FO Upward                                    | Request of information of Site Plans, Harvest Inspections to s.22, s.15 of KLC. Response back on Jan. 26, 2012 (Appendix 6)                                                                                                  |
| 2012-02-15    | FO Upward                                    | Investigation letter and follow up of CIMS report is sent by email to s.22, s.15. (Appendix 1 & 5)                                                                                                                           |
| 2012-02-15&16 | FO Upward                                    | Contact with s.22, s.15 to set up interview.                                                                                                                                                                                 |
| 2012-02-21    | FO Upward, FO Forrest,                       | Interview with s.22, s.15 at Kootenay Forestry Center regarding the logging operations on CP 23. Audio recorded and only notes submitted into binder. (Appendix 2)                                                           |
| 2012-02-23    | FO Upward, FO Forrest                        | Interview with s.22, s.15 regarding the conventional unit of CP 23 SU B. Audio recording and notes are submitted into the OTBH binder. (Appendix 2)                                                                          |
| 2012-02-29    | FO Upward                                    | Investigation letter is sent by mail to s.22, s.15 KLC                                                                                                                                                                       |
| 2012-06-11    | Mike Curran                                  | Emailed Final report to FO Upward with confirmation of soil disturbance survey results and potential consequences and recommendations (Appendix 2).                                                                          |



File: 23060-20 – DKL-29730  
00001925 00

February 15, 2012

Kalesnikoff Lumber Co. Ltd  
PO Box 3000  
Thrus, BC V1N 3L8

**REGISTERED**

Dear s.22, s.15

**Re: Notice of Investigation under the *Forest Practices Code of British Columbia Act***



I am writing to inform you that we recently conducted an inspection of the following activities carried out under or in relation to Forest License No. A30172

CP 23 block 8 was reviewed for compliance regarding soil disturbance limits for SU B.

The inspection indicated that it is possible that these activities may be in contravention of Section 47 of the *Forest Practices Code of British Columbia Act*. We are currently investigating the matter. The lead investigator is Katherine Upward. Please feel free to contact her at 250-825-1100 if you have any questions about the investigation.

Yours truly,

Katherine Upward  
Compliance and Enforcement Forester  
Kootenay Boundary Region

Page 1 of 1

Ministry of  
Forests, Lands, and  
Natural Resource  
Operations

Kootenay Boundary Region

1907 Ridgewood Road

Mailing Address:  
1907 Ridgewood Road  
Nelson, BC V1L 6K1

Tel: 250-825-1100  
Fax: 250-825-9657

## Upward, Katherine K FLNR:EX

---

**From:** Curran, Mike FLNR:EX  
**Sent:** Friday, September 9, 2011 5:17 PM  
**To:** Cosens, Andy FLNR:EX; Hartley, Iain FLNR:EX; Holoboff, Warren FLNR:EX; Picard, Marie-Helene FLNR:EX; Biallas, Harry FLNR:EX; Corley, Terry FLNR:EX; Forrest, Steve FLNR:EX; Herman, Connie FLNR:EX; Pearson, Tracey L FLNR:EX; Roenspiess, Keith B FLNR:EX; Upward, Katherine K FLNR:EX; Vaters, Kevin FLNR:EX; Knapik, Mike B FLNR:EX; Hills, Gerald FLNR:EX; Barron, Dan FLNR:EX  
**Subject:** Soil disturbance survey information for September 15th  
**Attachments:** sample1.gdb; sample1.gpx; sample1.kml; sample2.gdb; sample2.gpx; sample2.kml; Disturbance Flowchart Draft3 detailed.doc; GPS survey method working draft Sept 2.doc

As discussed with Kathy and Andy, we can now do a workshop while we do a random GPS survey to get a statistically valid soil disturbance number. In this case it is for an SU up Schroeder Ck that appears heavily disturbed from the air.

Here are some details for our session:

**Starting and meeting locations** – to be indicated by either Kathy or Andy (thx)

**Objective/schedule** – we will be above survey the whole 15 ha (as per Will's note below, the smaller part of the SU is about 5 ha, the larger about 10 ha). We will start on the smaller area as a group and then successively split up into smaller groups to survey all 110 points in "sample 1", keeping in touch with radio communication...

If time permits at the end we will try and survey more points in the more heavily disturbed area, using sample 2 points as a demo/test of the stratified survey method...

**What we need to bring:**

**PHOTO OF THE BLOCK FROM ANDY'S OFFICE (SORRY IT APPEARS I DO NOT HAVE ELECTRONICALLY, IF ANDY OR KATHY HAVE PLEASE FORWARD TO EVERYONE AHEAD OF TIME, THX!)**

- GPS units, preferably preloaded with the GPS points (files attached but Kathy and likely myself will try and ensure we get some units loaded on Tuesday and I have a field computer that can load GPS units as well (and I hope to download everyone's tracks at the end of our session)
- Radios
- Soil disturbance field cards (bring yours but I will have some more)
- Soil disturbance flowchart (I will bring some but also attached)
- Map of blocks showing the random points, so we can assign areas and cross off points when done (attached in this note)
- Field paper/notebook to record data
- Shovel for digging repeated machine traffic points to assess for 100 % compaction
- Flagging tape for marking points surveyed in the field (cheap summer tape will suffice)

### **Background information on the procedure:**

We will be testing/demonstrating the new GPS survey procedure whereby no hip or tight chains are required. We simply get 110 random points generated within each Standards Unit and then follow the GPS units to find the points (as already demonstrated to most of you before). The attached method describes the rationale and method in more detail and I will go over this when we start the survey Thursday morning...

A note about stratification:

If there was clearly an area with higher disturbance we would stratify the block and do two separate surveys. With the current photo it is clear that there may be more disturbance towards the west end of the SU, so we will do more points in that area after we do all of sample 1 to get a number for the entire SU.... more on that in the field...

Look forward to our session,

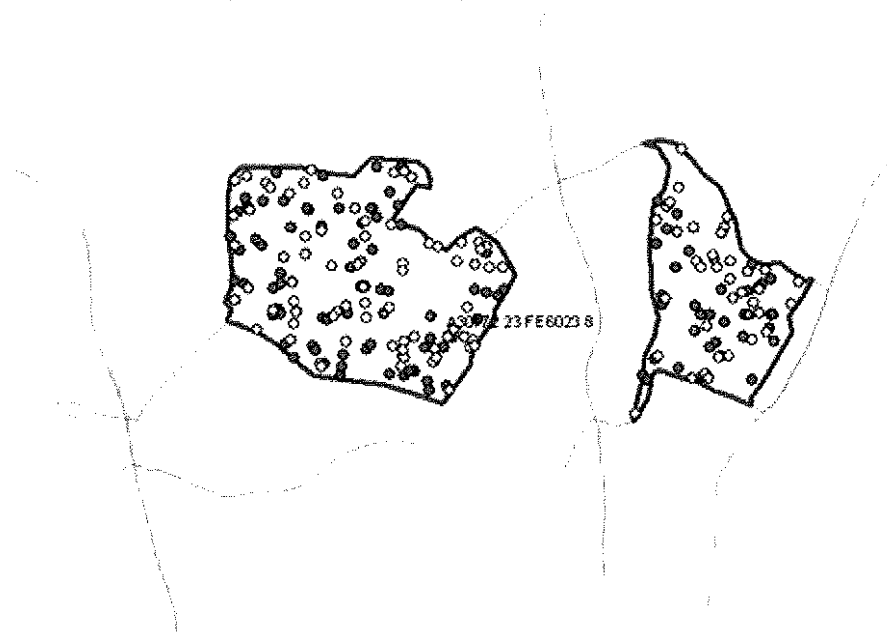
Mike Curran, PhD, PAg, Forest Science and Stewardship Team Leader (and Research Soil Scientist)  
BC Ministry of Forests, Lands and Natural Resource Operations (includes BC Forest Service)  
Kootenay-Boundary Region, Nelson, BC [email is best but I do check phone as well: (250)-354-6244]

**NOTE FROM WILL BURT ON THE RANDOM SURVEY POINTS:**

Ok here is a selection of formats for the two sample sets of 110 random points across the SU (2 polygons). If you want anything changed it is set up now so we can modify it quick. Just let me know. I will be at the SE Fire Centre Monday and Tuesday. Just email or communicator me if there is a issue.

The Easterly group contains 35/100 of sample 1, 37/110 of Sample 2. The East part is 4.98 ha and the West part is 9.74 ha.

SU B is in red. Sample 1 in Green. Sample2 in off-white.



## Upward, Katherine K FLNR:EX

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**From:** Upward, Katherine K FLNR:EX  
**Sent:** Wednesday, October 19, 2011 3:08 PM  
**To:** s.22, s.15  
**Subject:** Schroeder Creek Inspection  
**Attachments:** CIMS\_A30172\_CP23\_8.pdf

Hi s.22, s.15

Sorry for the delay, I have now attached the CIMS inspection from our Schroeder creek visit. As the report shows, I will be looking into the potential contravention for soil disturbance on this block. I will need to arrange a meeting with you and possibly the logging supervisor. Due to my current workload I don't expect to call you until the winter. If you have any questions or concerns, please feel free to contact me at the number below.

Thanks,  
Kathy

Katherine Upward, RPF  
C&E Forester  
Kootenay Boundary Sub-Region  
250-825-1168

## Upward, Katherine K FLNR:EX

---

**From:** s.22, s.15  
**Sent:** Thursday, January 26, 2012 7:16 AM  
**To:** Upward, Katherine K FLNR:EX  
**Subject:** RE: CP 23 Block 8 Information Request  
**Attachments:** CP 23 Block 8 Amendment #1.pdf; CP 23 Block 8 Amendment #2.pdf; CP 23 Block 8 Site Plan Original.pdf; Logging Inspections 2009 Hlookoff Logging.pdf; Logging Inspections 2006 Macdonal Creek.pdf

Hi Katherine. We had 2 separate contractors log the block. In 2006, Macdonald Creek Logging Cable harvested some of the block, then in 2009, Hlookoff Logging cable and conventional logged the remainder. A section of the block was deleted because of wildfire in 2006. Silviculture was completed in 2010 and North Fork road was deactivated that same year. Let me know when you wish to meet and we can arrange a time.

s.22, s.15  
Kalesnikoff Lumber Co. Ltd.

---

**From:** Upward, Katherine K FLNR:EX [mailto:Katherine.Upward@gov.bc.ca]  
**Sent:** Wednesday, January 25, 2012 3:07 PM  
**To:** s.22, s.15  
**Subject:** CP 23 Block 8 Information Request

Hi s.22, s.15

I am finally ready to start looking at this block and get more information from you. Prior to a meeting, I would like to review the following pieces of information regarding CP 23 Block 8. I would like to receive the site plan and all amendments. I will also need the logging contractor information and if you have logging plans and any internal logging inspections, I would appreciate this information at this time as well.

Thank you for your response,  
Kathy

Katherine Upward, RPF  
C&E Forester  
Kootenay Boundary Sub-Region  
250-825-1168

## Upward, Katherine K FLNR:EX

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**From:** Upward, Katherine K FLNR:EX  
**Sent:** Wednesday, February 15, 2012 10:40 AM  
**To:** s.22, s.15  
**Cc:** Cosens, Andy FLNR:EX  
**Subject:** A30172 CP 23 Bk 8  
**Attachments:** CIMS\_follow\_up\_CP\_23\_Bk\_8.pdf; KAL\_A30171\_CP23\_8\_heli photos.pdf; Letter1a\_DKL-29730.pdf

Hi s.22, s.15

As per our conversation, I have attached the investigation letter, CIMS follow up and photos. I look forward to meeting with you on the 23<sup>rd</sup>.

Kathy

Katherine Upward, RPF  
C&E Forester  
Kootenay Boundary Sub-Region  
250-825-1168

## Upward, Katherine K FLNR:EX

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**From:** Curran, Mike FLNR:EX  
**Sent:** Monday, June 11, 2012 4:41 PM  
**To:** Upward, Katherine K FLNR:EX; Cosens, Andy FLNR:EX  
**Subject:** Schroeder Creek soil disturbance report

Please find attached the final version of the report along with the soil disturbance flowchart, calculation spreadsheets and track changes version and fieldcards.

I have moved some discussion of temporary access and general harvest recommendations to an appendix.

I have also removed some text that is inserted here:

s.13, s.15



Schroeder Creek  
soil disturban...



Schroeder Creek  
soil disturban...



Schroeder field  
cards Sept 22 ...



Disturbance  
flowchart Draft3 d..

Cheers for now,



Schroeder LCL  
Table2.xls



Schroeder Ck  
September 2011 s.

Mike Curran, PhD, PAg, Research Soil Scientist  
BC Ministry of Forests, Lands and Natural Resource Operations (includes BC Forest Service)  
Kootenay-Boundary Region, Nelson, BC [email is best but I do check phone as well: (250)-354-6244]

















[Tenure](#) [CP/Mark](#) [Cut Block](#) [Assc. Files](#) [Assc. Client](#) [AAC](#) [Sale Info](#) [Tenure Appl.](#) [Notes](#)  
[G Rotation](#) [H Rotation](#) [Cpy Rotation](#) [TL Blk](#) [CP/CB Amend](#) [Rec Project](#) [Sctn \Brnch](#) [Road History](#)

## FTA100 - Tenure

[Back](#) [Back To Search](#) [Add New](#)

**File:** A30172  [Go](#) **Status:** HI - Issued  **As of:** 1987-01-01    
**Type:** A01 - Forest Licence  **Admin Org:** RSI - Southern Interior Forest  **Note(s) Attached**  
**Licensee:** 00001925 00 KALESIKOFF LUMBER CO. LTD. **Sec. Licensee?** N  
**Mgmt Unit:** U 13   Kootenay Lake TSA **Salvage:** No 

**Effective Date:** 1986-10-20 **Term:** 20 yr 0 mo **Initial Expiry Date:** 2006-10-19  
**Replaceable:** Yes  **Maximum Harvest Volume m<sup>3</sup>:**  
**Rep.Count:** 5 **Replaced Date:** 2006-10-19   
**Mark Designate:** FE6 **Current Expiry Date:** 2021-10-18 

## AAC

**Licence (ha):** 0.0

| Area Type:         | Amount |
|--------------------|--------|
| Private/Schedule A | 0      |
| Crown/Schedule B   | 55247  |
| <b>Total M3:</b>   | 55247  |

[Change Mark Designate](#)

[Save](#)

[Delete](#)

[Retire](#)

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[G Rotation](#) [H Rotation](#) [Cpy Rotation](#) [TL Blk](#) [CP/DB Amend](#) [Per Project](#) [Saw Bunch](#) [Road History](#)

## FTA901 - Cutting Permit List

File: A30172  Type: A01 - Forest Licence Admin Org: RSI - Southern Interior Fore Region  
 CP/HVA ID: 23 File Status: HI - Issued As of: 1987-01-01  
 Effective Date: 1986-10-20 Expiry Date: 2021-10-18  
 Licensee: 00001925 00 KALESNIKOFF LUMBER CO. LTD.

## Road Timber Marks

1 rows returned

District

Timber Mark



Generate Road Mark

DKL

FE60R1

## Cutting Permits

Back To Search

Add New

1 rows n


| District | CP/HVA ID | Timber Mark | Salvage Type | Status    | Issue      | Mark<br>Expiry | Extend To  |                         |                           |
|----------|-----------|-------------|--------------|-----------|------------|----------------|------------|-------------------------|---------------------------|
| DKL      | 23        | FE6023      |              | HC Closed | 2003-06-01 | 2006-05-31     | 2011-03-31 | <a href="#">Details</a> | <a href="#">Cut Block</a> |

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[Tenure](#) [CP/Mark](#) [Cut Block](#) [Assoc. Files](#) [Assoc. Client](#) [AAC](#) [Sale Info](#) [Tenure Appl.](#) [Notes](#)  
[G Rotation](#) [H Rotation](#) [Cpy Rotation](#) [TL Blk](#) [CP/CB Amend.](#) [Rec. Project](#) [Scn Brnch](#) [Road History](#)

## FTA903 - Cut Block List

File: A30172  Go Type: A01 - Forest Licence Admin Org: RSI - Southern Interior Forest Region  
CP/HVA ID: 23 File Status: HI - Issued As of: 1987-01-01  
Cut Block: Effective Date: 1986-10-20 Expiry Date: 2021-10-18  
Licensee: 00001925 00 KALESNIKOFF LUMBER CO. LTD.

[Back To Search](#)[Add New](#)

5 rows returned

| CP/HVA ID | Timber Mark | Salvage Type | Mark Status | CutBlock | Status | Harvest Date |            | Harvest Area (ha) |             |              | Authorized |    | Links                                                                    |
|-----------|-------------|--------------|-------------|----------|--------|--------------|------------|-------------------|-------------|--------------|------------|----|--------------------------------------------------------------------------|
|           |             |              |             |          |        | Start        | Complete   | Planned Gross     | Planned Net | Actual Gross | File       | CP |                                                                          |
| 23        | FE6023      |              | HC          | 1        | LC     | 2004-04-04   | 2005-07-19 | 111.0010          | 35.6000     | 111.0000     |            |    | <a href="#">Details</a> <a href="#">Results</a> <a href="#">Map View</a> |
| 23        | FE6023      |              | HC          | 3        | LC     | 2007-07-01   | 2009-07-31 | 44.4369           | 36.2000     | 36.2000      |            |    | <a href="#">Details</a> <a href="#">Results</a> <a href="#">Map View</a> |
| 23        | FE6023      |              | HC          | 4        | LC     | 2003-07-01   | 2003-11-30 | 12.9210           | 10.4000     | 12.9000      |            |    | <a href="#">Details</a> <a href="#">Results</a> <a href="#">Map View</a> |
| 23        | FE6023      |              | HC          | 7        | LC     | 2006-06-01   | 2006-11-25 | 53.2540           | 38.4000     | 34.9000      |            |    | <a href="#">Details</a> <a href="#">Results</a> <a href="#">Map View</a> |
| 23        | FE6023      |              | HC          | 8        | LC     | 2006-07-01   | 2009-07-31 | 33.7664           | 28.5000     | 22.4000      |            |    | <a href="#">Details</a> <a href="#">Results</a> <a href="#">Map View</a> |

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Ministry of Forests and Range  
Interior Appraisal System  
Logging and Silviculture Cost  
Estimate

Page : 1 of 2  
Date/Time Printed : 2012-05-15 14:06:31  
User ID : AJAARSMA  
Database : PROD  
Report ID : IASR083

Timber Mark : FE6023

Appraisal Effective Date : 2003-06-01

OBSOLETE - Nelson Forest Region (RSI)  
Kootenay Lake Forest District

Licence : A30172  
Cutting Permit : 23  
Calculation Date : 2010-06-25

Kootenay Lake TSA Block C  
Total Volume : 60,966  
Expiry Date : 2010-09-30

Logging Trend Factor : 0.921  
Silviculture Trend Factor : 0.921  
Manufacturing Trend Factor : 1.000  
Stumpage Rate Effective Date : 2010-07-01

MVI Eligible Indicator : Y  
Adjust Quarterly Indicator : Y

| PHASE                                               | Subphase<br>Cost<br>(\$ / m3 ) | Phase<br>Total<br>(\$ / m3 ) |
|-----------------------------------------------------|--------------------------------|------------------------------|
| DEVELOPMENT :                                       |                                |                              |
| Tabulated                                           |                                |                              |
| Culverts                                            |                                |                              |
| Roads                                               |                                |                              |
| Fencing and Cattle Guards                           |                                |                              |
| Allocated Development                               |                                |                              |
| Engineered Development                              |                                |                              |
| TREE TO TRUCK :                                     |                                |                              |
| Ground Skidding (Clear Cut)                         |                                |                              |
| Ground Skidding (Partial Cut)                       |                                |                              |
| Overhead Cable Yarding Highlead & Grapple (Clear)   |                                |                              |
| Overhead Cable Yarding Highlead & Grapple (Partial) |                                |                              |
| Overhead Cable Yarding Skyline                      |                                |                              |
| Helicopter Logging (Clear)                          | s.21                           |                              |
| Helicopter Logging (Partial)                        |                                |                              |
| Horse Logging                                       |                                |                              |
| Specified Operation                                 |                                |                              |
| LOG TRANSPORTATION :                                |                                |                              |
| Hauling                                             |                                |                              |
| Primary                                             |                                |                              |
| Secondary                                           |                                |                              |
| Water Transportation                                |                                |                              |
| Special Transportation and Specified Operations     |                                |                              |
| Road Management                                     |                                |                              |
| Road Use                                            |                                |                              |



Ministry of Forests and Range  
Interior Appraisal System  
Logging and Silviculture Cost  
Estimate

Page : 2 of 2  
Date/Time Printed : 2012-05-15 14:06:31  
User ID : AJAARSMA  
Database : PROD  
Report ID : IASR083

Timber Mark : FE6023

Appraisal Effective Date : 2003-06-01

| PHASE                              | Subphase<br>Cost<br>(\$ / m3 ) | Phase<br>Total<br>(\$ / m3 ) |
|------------------------------------|--------------------------------|------------------------------|
| ADMINISTRATION & OTHER :           |                                |                              |
| Overhead                           | s.21                           | s.21                         |
| Low Volume additive:               |                                |                              |
| TOTAL LOGGING COST :               |                                | 71.87                        |
| TOTAL TRENDLED LOGGING COST :      |                                | 66.19                        |
| SILVICULTURE :                     |                                | 4.64                         |
| Basic                              |                                |                              |
| Specified                          | 0.00                           |                              |
| TOTAL TRENDLED SILVICULTURE COST : |                                | 4.27                         |

End of Report

# **FOREST AND RANGE PRACTICES ACT**

## **[SBC 2002] CHAPTER 69**

### **Division 3 — Administrative Remedies**

#### **Administrative penalties**

- 71 (1) The minister, after giving a person who is alleged to have contravened a provision of the Acts an opportunity to be heard, may determine whether the person has contravened the provision.
- (2) After giving a person an opportunity to be heard under subsection (1), or after one month has elapsed after the date on which the person was given the opportunity, the minister,
- (a) if he or she determines that the person has contravened the provision,
    - (i) may levy an administrative penalty against the person in an amount that does not exceed a prescribed amount, or
    - (ii) may refrain from levying an administrative penalty against the person if the minister considers that the contravention is trifling and that it is not in the public interest to levy the administrative penalty, or
  - (b) may determine that the person has not contravened the provision.
- (3) Subject to section 72, if a person's contractor, employee or agent contravenes a provision of the Acts in the course of carrying out the contract, employment or agency, the person also contravenes the provision.
- (4) If a corporation contravenes a provision of the Acts, a director or an officer of the corporation who authorized, permitted or acquiesced in the contravention also contravenes the provision.

(5) Before the minister levies an administrative penalty under subsection (2), he or she must consider the following:

- (a) previous contraventions of a similar nature by the person;
- (b) the gravity and magnitude of the contravention;
- (c) whether the contravention was repeated or continuous;
- (d) whether the contravention was deliberate;
- (e) any economic benefit derived by the person from the contravention;
- (f) the person's cooperativeness and efforts to correct the contravention;
- (g) any other considerations that the Lieutenant Governor in Council may prescribe.

(6) If the minister levies an administrative penalty against a person under this section or under section 74 (3) (d) the minister must give a notice of determination to the person specifying:

- (a) the provision contravened;
- (b) the amount of the penalty;
- (c) the date by which the penalty must be paid;
- (d) the person's right to a review under section 80 or to an appeal under section 82;
- (e) an address to which a request for a review may be delivered.

(7) For the purposes of this section, the Lieutenant Governor in Council may prescribe administrative penalties that vary according to

- (a) the area of land affected by the contravention,
- (b) the volume of timber affected by the contravention,
- (c) the number of trees affected by the contravention,
- (d) the number of livestock affected by the contravention,

(d.1) the amount of forage destroyed by the contravention,  
or

(e) the amount of hay affected by the contravention.

### **Defences in relation to administrative proceedings**

**72** For the purposes of a determination of the minister under section 71 or 74, no person may be found to have contravened a provision of the Acts if the person establishes that the

(a) person exercised due diligence to prevent the contravention,

(b) person reasonably believed in the existence of facts that if true would establish that the person did not contravene the provision, or

(c) person's actions relevant to the provision were the result of an officially induced error.

### **Penalty revenue to be paid into special account**

**73** All revenue derived from administrative penalties levied under this Division must be paid into the Environmental Remediation Sub-account of the Forest Stand Management Fund special account established by the *Special Accounts Appropriation and Control Act*.

### **Remediation orders**

**74** (1) If the minister determines under section 71 that a person who

(a) is the holder of an agreement under the *Forest Act* or the *Range Act*, or

(b) is in a prescribed category of persons

has contravened a provision of this Act or a regulation or standard, the minister may order the person to do work reasonably necessary to remedy the contravention.

(2) If the minister makes an order under subsection (1) of this section or under section 51 (7), 54 (2) or 57 (4), the minister or official, as the



case may be, must give written notice, accompanied by the order, to the holder or person, specifying

- (a) the provision contravened,
- (b) the work to be done to remedy the contravention,
- (c) the date by which the work must be completed,
- (d) the person's right to a review under section 80 or to an appeal under section 82,
- (e) the right under subsection (3) (b) of the minister to carry out the work, and
- (f) the right under subsection (3) (d) of the minister to levy an administrative penalty for the contravention.

(3) If a person, by the date specified in a notice given under subsection (2), does not comply with an order of the minister under subsection (1) of this section or under section 51 (7), 54 (2) or 57 (4), the minister may do one or more of the following:

- (a) by order restrict or prohibit the person from carrying out the work referred to in the order;
- (b) carry out the work;
- (c) by order require the person to pay to the government the amount of all direct and indirect costs the minister determines were reasonably incurred in carrying out the work referred to in paragraph (b);
- (d) by order levy an administrative penalty not exceeding an amount that is the sum of the costs referred to in paragraph (c);
- (e) for the purpose of recovering the costs referred to in paragraph (c) or the administrative penalty referred to in paragraph (d), realize any security provided by the person under the regulations.

(4) The minister must give written notice of the completion of work carried out under subsection (3) (b) and of any order under subsection

(3) (a) or (c) to the person to whom the notice under subsection (2) was given,

(a) informing the person of

(i) the restrictions or the prohibition under an order under subsection (3) (a), and

(ii) the amount payable by the person to the government under an order under subsection (3) (c) and the person's liability under section 130 of the *Forest Act* to pay that amount,

(b) providing the person with a copy of the order under subsection (3) (a), and

(c) providing the person with a copy of the order under subsection (3) (c) and with an accounting of the expenditures relating to the work.

(5) The minister must give written notice to the person, who is the subject of an order under subsection (3) (d), providing the person with a copy of the order and informing the person of

(a) the amount of the administrative penalty and the person's liability under section 130 of the *Forest Act* to pay that amount,

(b) the reasons for the administrative penalty, and

(c) the person's right to a review under section 80 or to an appeal under section 82, including an address to which a request for a review or appeal may be delivered.

(6) The person immediately must replace security realized under subsection (3) (e).

(7) The minister must refund to the person any surplus of funds remaining from the realization of a security under subsection (3) (e), after payment of

(a) the amount of the costs referred to in subsection (3) (c), and

- (b) any administrative penalty levied under subsection (3)
- (d).

(8) If the holder of an agreement or another person who receives an order under subsection (1)

- (a) carries out work specified in the order, and
- (b) incurs expenses in excess of the expenses that the person would have incurred if the order had not been made,

and the order is rescinded on review or appeal, then, to the extent provided in the regulations, the excess expenses of the work are to be paid by the government.

## Regulations - Forest Practices Code of BC Act

### ADMINISTRATIVE REMEDIES REGULATION

#### Contents

B.C. Reg. 182/98 - Deposited , June 4, 1998  
 O.C. 0706/98 - effective June 15, 1998  
 Consolidated to December 12, 2003

#### SCHEDULE - Forest Practices Code of British Columbia Act

| Column 1                                                     | Column 2                                                                                                                              | Column 3 |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| <i>Forest Practices<br/>Code of British<br/>Columbia Act</i> | 45 (1)<br>47 (1) or (3.1)<br>69.1 (3)<br>70 (3)                                                                                       | 100 000  |
|                                                              | 45 (3)<br>46 (1), (1.1), (3) or (4)<br>47 (5) or (6.1)<br>48 (1)<br>50 (3)<br>58 (2)<br>62 (1)<br>63 (1), (2) or (3)<br>64 (1) or (2) | 50 000   |

|                                                                                                                                                                                                                  |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 67 (1)<br>69.1 (4) (a), (b), (c), (d) or (e)<br>70 (4) (a), (b), (c), (d), (e), (f) or (g)<br>248 (1) or (2)<br>249<br>250 (1)                                                                                   |        |
| 45 (4) or (5)<br>50 (1)<br>51 (2) (a) or (b)<br>64 (3)<br>69<br>79 (1) (a)<br>82<br>106 (1)                                                                                                                      | 20 000 |
| 27 (1)<br>35 (1) (a)<br>36 (2) (b)<br>52 (2)<br>54 (1), (2), (3.3) (b), (5.1) or (6)<br>55 (3) (a)<br>60 (1) (b)<br>64 (5)<br>67 (2) (c)<br>68 (1)<br>70 (6)<br>74 (1)                                           | 10 000 |
| 74 (2) (a), (b) or (c)<br>97 (1) or (2)<br>98<br>99 (1)<br>101 (1) (a), (b), (1.2), or (2)                                                                                                                       | 10 000 |
| 17 (1)<br>21.1 (3), (5) or (6)<br>27 (7)<br>35 (1) (b) or (2)<br>36 (2) (a) or (4)<br>42.1 (4)<br>50 (2)<br>55 (3) (b)<br>54 (3.3) (a)<br>56 (1) or (2)<br>60 (1) (a) or (3)<br>64 (10)<br>65<br>69.1 (f) or (g) | 5 000  |

|                         |                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------|
| 70 (4) (h) or (i)       |                                                                                                           |
| 74 (4)                  |                                                                                                           |
| 76 (1)                  |                                                                                                           |
| 79 (1) (b)              |                                                                                                           |
| 82                      |                                                                                                           |
| 84 (2) or (4)           |                                                                                                           |
| 85 (2)                  |                                                                                                           |
| 86                      |                                                                                                           |
| 87 (1) or (2)           |                                                                                                           |
| 88 (2)                  |                                                                                                           |
| 92 (1) (a)              |                                                                                                           |
| 94 (2)                  |                                                                                                           |
| 99 (2)                  |                                                                                                           |
| 225 (1)                 |                                                                                                           |
| 252 (1) (a)             |                                                                                                           |
| 96 (1) or (2)           | The greater of 200<br>per m <sup>3</sup> of timber<br>affected or 100 000<br>per ha of timber<br>affected |
| 80 (1), (2), (3) or (4) | 1000 per ha                                                                                               |
| 100                     |                                                                                                           |

# Forest Practice Code of British Columbia Act

## PART 1 - DEFINITIONS

"soil disturbance" means

- (a) disturbance to the soil that occurs, on an area covered by a silviculture prescription or by a site plan under section 21.1, because of
  - (i) excavated or bladed trails that are of a temporary nature,
  - (ii) corduroyed trails,
  - (iii) temporary access structures,
  - (iv) compacted areas resulting from a forest practice, or
  - (v) dispersed disturbance of the soil resulting from a forest practice, and

### 47. Soil conservation: net area to be reforested

47. (1) A person carrying out a forest practice on an area under a silviculture prescription must not exceed the maximum amount of soil disturbance within the net area to be reforested that is specified in the prescription.

(2) Despite subsection (1), a person carrying out timber harvesting operations may, in accordance with a silviculture prescription, temporarily exceed the maximum amount of soil disturbance within the net area to be reforested to the extent necessary to construct temporary access structures approved in the silviculture prescription if the silviculture prescription provides for soil rehabilitation measures to be carried out to those temporary access structures.

(3) Despite subsection (1), a person carrying out silviculture treatments may, in accordance with a silviculture prescription, temporarily exceed the maximum amount of soil disturbance within the net area to be reforested if the silviculture prescription provides for site rehabilitation measures to be carried out on the conclusion of silviculture treatments.

➡(3.1) A person carrying out a forest practice on an area under a site plan prepared under section 21.1 must not exceed the prescribed maximum amount of soil disturbance in the net area to be reforested.⬅

➡(3.2) A person carrying out timber harvesting operations or silviculture treatments on an area under a site plan prepared under section 21.1, in prescribed circumstances, may temporarily exceed the prescribed maximum amount referred to in subsection (3.1).⬅

(4) For greater certainty, the following types of soil disturbance contribute to the total soil disturbance amount for the net area to be reforested:

(a) any unrehabilitated compacted area, corduroyed trail or dispersed disturbance;

➡(b) any unrehabilitated temporary access structure that is specified as one in a site plan prepared under section 21.1 or in a silviculture prescription.⬅

➡(5) A person who, for an area under a site plan prepared under section 21.1 or silviculture prescription, causes soil disturbance to occur in the net area to be reforested such that the

maximum amount of soil disturbance within the net area to be reforested is exceeded, must rehabilitate the area in accordance with the regulations and standards.◀

(6) A person who constructs or modifies a road, or constructs a landing, borrow pit or gravel pit that is specified in a silviculture prescription as being of a temporary nature, must rehabilitate the area occupied by the road, landing, borrow pit or gravel pit in accordance with the regulations and standards.

➡(6.1) In prescribed circumstances and subject to section 58 (2), a person who prepares a site plan under section 21.1

(a) may construct or modify a temporary road, or construct a temporary landing, borrow pit or gravel pit, and

(b) must rehabilitate the area occupied by the road, landing, borrow pit or gravel pit.◀

➡(7) A person who, within an area under a site plan prepared under section 21.1 or silviculture prescription, constructs or modifies a bladed or excavated trail or a corduroyed trail or creates a compacted area, must rehabilitate the area in accordance with the regulations and standards.◀

## **Timber Harvesting and Silviculture Practices Regulation (FPC)**

### **Limits on the amount of soil disturbance**

- 31** (1) In this section, “**sensitive soils**” means soils on an area that through a combination of climate, soil properties, site moisture conditions and site topography have
- (a) in the Interior, a very high soil compaction hazard, soil displacement hazard or soil erosion hazard, and
  - (b) on the Coast, a high or very high soil compaction hazard, soil displacement hazard or soil erosion hazard.
- (2) A holder of an agreement under the *Forest Act* must not cause the soil disturbance on the net area to be reforested within a standards unit to exceed
- (a) the applicable performance standard, or
  - (b) if there is no applicable performance standard,
    - (i) 5% of the area in the standards unit if the area has sensitive soils, and
    - (ii) 10% of the area in the standards unit if the area does not have sensitive soils.
- (3) Despite subsection (2), a holder of an agreement under the *Forest Act* may exceed the soil disturbance limits under that subsection if
- (a) the harvesting on the area was to remove infected stumps, or
  - (b) specific site rehabilitation or site preparation objectives for the area are contained in the forest development plan.
- (4) Despite subsection (2), a holder of an agreement under the *Forest Act* may temporarily exceed the soil disturbance limits referred to in that subsection if
- (a) the extra disturbance
    - (i) is for the construction of temporary access structures or excavated or bladed trails, and

- (ii) does not exceed 5% of the standards unit, and
- (b) the holder rehabilitates the area to the extent necessary to bring the area back into compliance with the specified limits.

### **Rehabilitation of disturbed areas**

- 33** (1) A holder of an agreement under the *Forest Act* who is required to rehabilitate a disturbed portion of an area under section 46 (4) or 47 (5) or (7) of the Act must
- (a) restore the disturbed portion of the area to a productive state,
  - (b) reduce surface soil erosion in the area, and
  - (c) reasonably mitigate the impact of the forest practice that made the rehabilitation necessary on forest resources that are identified
    - (i) in higher level plans or operational plans, or
    - (ii) by the district manager, if the forest practice was exempted from the requirement of a logging plan or silviculture prescription or site plan.
- (2) For the purposes of section 49 (2) (d) of the Act, the district manager may exempt a person who is the holder of a site plan from the requirement to rehabilitate areas under section 46 (4) or 47 (5) to (7) of the Act if the district manager is satisfied that treating the area is unlikely to restore soil productivity on the area to a level acceptable to the district manager.

## **Regulations - Forest Practices Code of BC Act**

### **OPERATIONAL AND SITE PLANNING REGULATION**

#### **PART 1 - INTERPRETATION**

**"temporary access structure"** means

- (a) an excavated or bladed trail,
- (b) a main skid trail, backspar trail, corduroyed trail or similar structure that is identified in a silviculture prescription or logging plan as a temporary access structure, or
- (c) a road, landing, pit or quarry that is identified in an operational plan as a temporary access structure;

**"excavated or bladed trail"** means a constructed trail that has

- (a) an excavated or bladed width greater than 1.5 m, and
- (b) a mineral soil cutbank height greater than 30 cm.



# Client Compliance & Enforcement History

## Actions Taken from 1995-01-01 to 2012-02-15

| <b>Name:</b>    | KALESNIKOFF LUMBER CO. LTD.       |                                                        | <b>Number:</b>       | 00001925          |  |
|-----------------|-----------------------------------|--------------------------------------------------------|----------------------|-------------------|--|
| <b>Address:</b> | BOX 3000 THRUMS BC V1N3L8         |                                                        | <b>Location Code</b> | 00                |  |
| Inspection ID   | Site                              | CIMS Article                                           | Action Taken         | Action Taken Date |  |
| 4308            | B01/R03225 25 Construction        | FPC of BC Act 67                                       | Warning Ticket       | 2001-09-10        |  |
| 50053           | B01/R11963 B Construction         | Forest Act 84 (1)                                      | Compliance Notice    | 2002-06-13        |  |
| 50053           | B01/R11963 B Construction         | Forest Road Regulation (FPC) 12 (1) (A)                | Compliance Notice    | 2002-06-13        |  |
| 50693           | B01/R11963 B Maintenance          | Forest Road Regulation (FPC) 13 (1) (C)(IV)            | Compliance Notice    | 2002-07-08        |  |
| 51410           | B01/R11963 I Maintenance          | Forest Act 84 (1)                                      | Compliance Notice    | 2001-07-17        |  |
| 51410           | B01/R11963 I Maintenance          | Forest Road Regulation (FPC) 12 (1) (B)                | Compliance Notice    | 2001-07-17        |  |
| 51741           | B01/R07868 K Construction         | Forest Road Regulation (FPC) 10 (1)                    | Compliance Notice    | 2002-07-23        |  |
| 51774           | B01/R05501 D1 Construction        | Forest Road Regulation (FPC) 12 (1) (B)                | Compliance Notice    | 2002-07-23        |  |
| 52782           | A01/A30172 14/3                   | Timber Harvesting Practices Regulation (FPC) 5         | Compliance Notice    | 2002-08-08        |  |
| 54962           | B01/R11963 B Construction         | Forest Road Regulation (FPC) 12 (5)                    | Compliance Notice    | 2002-09-04        |  |
| 54962           | B01/R11963 B Construction         | Forest Road Regulation (FPC) 13 (1) (O)(I)             | Compliance Notice    | 2002-09-04        |  |
| 54984           | B01/R11963 B Maintenance          | Timber Harvesting Practices Regulation (FPC) 19 (1)(A) | Compliance Notice    | 2002-09-04        |  |
| 57206           | B01/R11963 B Maintenance          | Forest Road Regulation (FPC) 13 (1) (F)                | Compliance Notice    | 2002-10-03        |  |
| 57249           | B01/R11963 B Construction         | Forest Road Regulation (FPC) 12 (1) (E)                | Compliance Notice    | 2002-10-03        |  |
| 68582           | A01/A20194 38/1                   | Forest Act 84 (1)                                      | Compliance Notice    | 2003-04-07        |  |
| 68584           | A01/A20194 25/4                   | Forest Act 84 (1)                                      | Compliance Notice    | 2003-04-07        |  |
| 86685           | 82F 032 0.0-66 A01/A20194 24/BLK5 | FPC of BC Act 70 (4)(E)                                | Compliance Notice    | 2003-06-26        |  |
| 86879           | 82E 050 0.0-25 A01/A20194 23/4    | FPC of BC Act 70 (4)(C)                                | Compliance Notice    | 2003-10-24        |  |
| 90603           | 546                               | Forest Act 94 (4)                                      | Warning Ticket       | 2004-06-14        |  |
| 91741           | B01/R03225 22 Construction        | Forest Act 84 (3)                                      | Compliance Notice    | 2004-07-20        |  |
| 91765           | B01/R03225 22A Construction       | Forest Act 84 (1)                                      | No Action            | 2004-07-20        |  |
| 93401           | A01/A20194 198/2004               | FPC of BC Act 96 (1)                                   | Warning Ticket       | 2004-08-16        |  |
| 93970           | B01/R03225 22B Construction       | FPC of BC Act 91                                       | No Action            | 2004-08-26        |  |
| 139728          | A01/A20194 51/2                   | Forest Act 84 (1)                                      | Compliance Notice    | 2007-03-06        |  |
| 141537          | B01/R03111 1 Maintenance          | Forest Planning & Practices Regulation (FRPA) 79 (2)   | Compliance Notice    | 2007-04-12        |  |
| 144386          | A01/A20194 40/3                   | FPC of BC Act 96 (1)                                   | Compliance Notice    | 2007-06-08        |  |

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|-----------------|-----------------------------|----------------------|----------|
| <b>Name:</b>    | KALESNIKOFF LUMBER CO. LTD. | <b>Number:</b>       | 00001925 |
| <b>Address:</b> | BOX 3000 THRUMS BC V1N3L8   | <b>Location Code</b> | 00       |

|        |                                |                                                           |               |            |
|--------|--------------------------------|-----------------------------------------------------------|---------------|------------|
| 144663 | A01/A20194A20194 50/1          | Forest Planning & Practices Regulation (FRPA) 79 (2)      | Compliance Ac | 2007-06-21 |
| 144663 | A01/A20194A20194 50/1          | Forest Planning & Practices Regulation (FRPA) 79 (2)      | Compliance Nr | 2007-06-21 |
| 145635 | B01/R11963 N Maintenance       | Forest Road Regulation (FPC) 13 (2)                       | Compliance Nr | 2007-07-04 |
| 145638 | A01/A30172 23/8                | Forest Act 84 (1)                                         | No Action     | 2007-07-04 |
| 146251 | A01/A30172 26/10               | Forest Act 84 (1)                                         | Compliance Nr | 2007-07-05 |
| 157354 | Kalesnikoff Lumber             | Timber Marking & Transportation Regulation (FA) 10 (3)(A) | Compliance Nr | 2008-02-07 |
| 160828 | B01/R04263 1 Maintenance       | Forest Planning & Practices Regulation (FRPA) 79 (6)(b)   | Compliance Nr | 2008-05-06 |
| 160841 | A01/A20194 49/5                | Forest Planning & Practices Regulation (FRPA) 85 (1)(a)   | Compliance Nr | 2008-05-06 |
| 160850 | A01/A20194 49/6                | Forest Planning & Practices Regulation (FRPA) 85 (1)(a)   | Compliance Nr | 2008-05-06 |
| 164796 | B01/R12035 I Maintenance       | Forest Act 84 (1)                                         | No Action     | 2008-07-29 |
| 171146 | B40/8021 01 Maintenance        | Forest Service Road Use Regulation 6 (3)                  | Compliance Nr | 2008-11-17 |
| 242636 | B40/8021 01 Maintenance        | Forest Planning & Practices Regulation (FRPA) 79 (6)(c)   | Compliance Nr | 2010-07-08 |
| 243721 | 82E 050 0.0-35 A01/A20194 28/4 | FPC of BC Act 70 (4)(C)                                   | Compliance Nr | 2010-08-12 |

| ERA           |                             |                                                   |                      |                            |                  |                   |
|---------------|-----------------------------|---------------------------------------------------|----------------------|----------------------------|------------------|-------------------|
| Case No       | Site                        | Article                                           | Contravention Status | Outcome Status             | Action Taken     | Action Taken Date |
| DKL-1997-0094 | A30172 11/34                | FPC of BC Act 96 (1)                              | Determined           | Determined                 | Penalty          | 1997-07-02        |
| DKL-2000-0041 | R07868                      | Forest Road Regulation (FPC) 13 (1)(H)(I)         | Determined           | Determined                 | Penalty          | 2000-10-23        |
| DKL-2001-0017 | 82F 054 0.0- 39 A30172 14/3 | FPC of BC Act 58 (2)                              | Determined           | Determined                 | No Action        | 2000-12-13        |
| DAR-1998-0059 | 82F 031 0.0- 98 A20194 35/6 | FPC of BC Act 67 (2)(C)(II)                       | Determined           | Determined                 | No Action        | 1998-08-20        |
| DAR-2002-0033 | 82F 031 0.0- 67 A20194 22/4 | FPC of BC Act 70 (4)(E)                           | Determined           |                            | Remediation      | 2003-07-29        |
| DAR-1998-0045 | A20194 198                  | FPC of BC Act 96 (1)                              | Determined           | Determined                 | Penalty          | 1998-04-25        |
| DKL-23971     | A30172                      | Silviculture Practices Regulation (FA) 6 (I)      | Determined           |                            | Remediation      | 2005-07-15        |
| DKL-23971     | A30172                      | Silviculture Practices Regulation (FPC) 8 (4)     | Determined           |                            | Remediation      | 2005-07-15        |
| DKL-1996-0079 | A30172 3/1                  | Silviculture Practices Regulation (FPC) 17 (1)(C) | Determined           | Determined                 | Remediation      | 1996-03-01        |
| DKL-1996-0079 | A30172 3/1                  | Silviculture Practices Regulation (FPC) 19 (2)    | Determined           | Determined                 | Remediation      | 1996-03-01        |
| DKL-2001-0014 | R11963                      | FPC of BC Act 45 (3)                              | Determined           | ERA 2.1 Conversion Unknown | Remediation      | 2001-07-25        |
| DKL-22340     | A30172 22/4                 | FPC of BC Act 96 (1)                              | Determined           |                            | Violation Ticket | 2003-10-30        |
| DAR-1998-0042 | A20194 31/2                 | FPC of BC Act 21 (1)                              | Determined           |                            | Violation Ticket | 1997-10-08        |
| DAR-1998-0059 | 82F 031 0.0- 98 A20194 35/6 | FPC of BC Act 47 (1)                              | Determined           | Determined                 | No Action        | 1998-08-20        |
| DAR-1999-0013 | 82F 031 0.0- 99 A20194 35/5 | Forest Road Regulation (FPC) 12 (1)(A)            | Determined           | Determined                 | No Action        | 1998-12-08        |
| DAR-1999-0013 | 82F 031 0.0- 99 A20194 35/5 | FPC of BC Act 62 (1)                              | Determined           | Determined                 | Penalty          | 1998-12-08        |

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|-----------------|-------------------------------------|---------------------------------------------------|------------|------------|----------------------|------------|--|
| <b>Name:</b>    | KALESNIKOFF LUMBER CO. LTD.         |                                                   |            |            | <b>Number:</b>       | 00001925   |  |
| <b>Address:</b> | BOX 3000 THRUMS BC V1N3L8           |                                                   |            |            | <b>Location Code</b> | 00         |  |
| DAR-1999-0013   | 82F 031 0.0- 99 A20194 35/5         | Forest Road Regulation (FPC) 11 (1)(A)            | Determined | Determined | No Action            | 1998-12-08 |  |
| DAR-1999-0013   | 82F 031 0.0- 99 A20194 35/5         | Forest Road Regulation (FPC) 12 (1)(B)            | Determined | Determined | No Action            | 1998-12-08 |  |
| DKL-2000-0041   | R07868                              | FPC of BC Act 62 (1)                              | Determined | Determined | No Action            | 2000-10-23 |  |
| DKL-2000-0041   | R07868                              | Forest Road Regulation (FPC) 12 (1)(B)            | Determined | Determined | Penalty              | 2000-10-23 |  |
| DAR-2002-0032   | 82F 041 0.0- 52 A20194 20/AREA1BLK2 | FPC of BC Act 70 (4)(E)                           | Determined |            | Remediation          | 2003-07-29 |  |
| DAR-1998-0045   | A20194 198                          | FPC of BC Act 67 (1)                              | Determined | Determined | Penalty              | 1998-04-25 |  |
| DKL-23971       | A30172                              | FPC of BC Act 70 (4)(C)                           | Determined |            | Remediation          | 2005-07-15 |  |
| DKL-1996-0079   | A30172 3/1                          | Silviculture Practices Regulation (FPC) 17 (1)(C) | Determined | Determined | Penalty              | 1996-03-01 |  |
| DKL-2001-0016   | R12034                              | Forest Road Regulation (FPC) 10 (1)               | Determined | Determined | No Action            | 2001-01-26 |  |
| DKL-2001-0016   | R12034                              | Forest Road Regulation (FPC) 13 (1)(H)(I)         | Determined | Determined | Penalty              | 2001-01-26 |  |
| DKL-2001-0017   | 82F 054 0.0- 39 A30172 14/3         | Forest Road Regulation (FPC) 13 (1)(H)(II)        | Determined | Determined | Penalty              | 2000-12-13 |  |
| DKL-2003-0003   | R11963                              | Forest Road Regulation (FPC) 12 (1)(B)            | Determined | Rescinded  | No Action            | 2004-02-06 |  |
| DKL-1996-0079   | A30172 3/1                          | Silviculture Practices Regulation (FPC) 20        | Determined | Determined | Remediation          | 1996-03-01 |  |
| DAR-1996-0043   | R05843                              | Forest Act 65 (1)                                 | Determined |            | Violation Ticket     | 1995-11-15 |  |
| DAR-2002-0019   | R03225                              | FPC of BC Act 62 (1)                              | Determined |            | Violation Ticket     | 2001-10-22 |  |
| DAR-2002-0034   | 82F 032 0.0- 67 A20194 24/BLK6      | FPC of BC Act 70 (4)(E)                           | Determined |            | Remediation          | 2003-07-29 |  |
| DAB-23226       | A20194 37/1                         | Forest Act 84 (1)                                 | Determined |            | Violation Ticket     | 2004-07-28 |  |
| DKL-23971       | A30172                              | Silviculture Practices Regulation (FA) 21 (E)     | Determined |            | Remediation          | 2005-07-15 |  |
| DKL-2001-0016   | R12034                              | FPC of BC Act 62 (1)                              | Determined | Determined | No Action            | 2001-01-26 |  |
| DKL-2001-0017   | 82F 054 0.0- 39 A30172 14/3         | Forest Road Regulation (FPC) 13 (1)(H)(II)        | Determined | Determined | Remediation          | 2000-12-13 |  |
| DAR-2002-0022   | R03225                              | FPC of BC Act 62 (1)                              | Determined |            | Violation Ticket     | 2001-10-22 |  |
| DAR-1998-0045   | A20194 198                          | FPC of BC Act 96 (1)                              | Determined | Determined | Stop Work Order      | 1997-10-15 |  |
| DAR-1999-0013   | 82F 031 0.0- 99 A20194 35/5         | Forest Road Regulation (FPC) 12 (1)(C)(IV)        | Determined | Determined | No Action            | 1998-12-08 |  |
| DKL-2001-0017   | 82F 054 0.0- 39 A30172 14/3         | FPC of BC Act 60 (1)                              | Determined | Determined | No Action            | 2000-12-13 |  |
| DAR-1997-0050   | A20194 34/3                         | FPC of BC Act 62 (1)                              | Determined |            | Violation Ticket     | 1996-12-18 |  |
| DAR-1998-0027   | A20194 35/2                         | FPC of BC Act 67                                  | Determined |            | Violation Ticket     | 1997-09-15 |  |
| DAR-2002-0036   | 82F 041 0.0- 38 A20194 20/AREA2BLK1 | FPC of BC Act 70 (4)(E)                           | Determined |            | Remediation          | 2003-07-29 |  |

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# Client Compliance & Enforcement History

## Actions Taken from 2009-01-01 to 2013-10-10

| <b>Name:</b>    | KALESNIKOFF LUMBER CO. LTD.     |                                                         |               | <b>Number:</b>       | 00001925       |              |                   |
|-----------------|---------------------------------|---------------------------------------------------------|---------------|----------------------|----------------|--------------|-------------------|
| <b>Address:</b> | BOX 3000 THRUMS BC V1N3L8       |                                                         |               | <b>Location Code</b> | 00             |              |                   |
| Inspection ID   | Site                            | CIMS Article                                            | Action Taken  | Action Taken Date    |                |              |                   |
| 242636          | B40/8021 01 Maintenance         | Forest Planning & Practices Regulation (FRPA) 79 (6)(c) | Compliance Nc | 2010-07-08           |                |              |                   |
| 243721          | 82E 050 0.0-35 A01/A20194 28/4  | FPC of BC Act 70 (4)(C)                                 | Compliance Nc | 2010-08-12           |                |              |                   |
| 272242          | 82E 050 0.0-55 A01/A20194 36/2  | FPC of BC Act 70 (4)(E)                                 | Compliance Nc | 2013-04-17           |                |              |                   |
| 272242          | 82E 050 0.0-55 A01/A20194 36/2  | Forest Planning & Practices Regulation (FRPA) 86 (3)(d) | Compliance Nc | 2013-04-17           |                |              |                   |
| 272249          | 82E 050 0.0-56 A01/A20194 36/3  | FPC of BC Act 70 (4)(E)                                 | Compliance Nc | 2013-04-17           |                |              |                   |
| 272249          | 82E 050 0.0-56 A01/A20194 36/3  | Forest Planning & Practices Regulation (FRPA) 86 (3)(d) | Compliance Nc | 2013-04-17           |                |              |                   |
| 272252          | 82F 031 0.0-99 A01/A20194 35/5  | FPC of BC Act 70 (4)(E)                                 | Compliance Nc | 2013-04-17           |                |              |                   |
| 272252          | 82F 031 0.0-99 A01/A20194 35/5  | Forest Planning & Practices Regulation (FRPA) 86 (3)(d) | Compliance Nc | 2013-04-17           |                |              |                   |
| 272256          | 82F 031 0.0-106 A01/A20194 35/7 | FPC of BC Act 70 (4)(E)                                 | Compliance Nc | 2013-04-17           |                |              |                   |
| 272256          | 82F 031 0.0-106 A01/A20194 35/7 | Forest Planning & Practices Regulation (FRPA) 86 (3)(d) | Compliance Nc | 2013-04-17           |                |              |                   |
| 272263          | 82F 031 0.0-133 A01/A20194 35/2 | FPC of BC Act 70 (4)(E)                                 | Compliance Nc | 2013-04-17           |                |              |                   |
| 272263          | 82F 031 0.0-133 A01/A20194 35/2 | Forest Planning & Practices Regulation (FRPA) 86 (3)(d) | Compliance Nc | 2013-04-17           |                |              |                   |
| 272264          | 82F 032 0.0-96 A01/A20194 35/3A | FPC of BC Act 70 (4)(E)                                 | Compliance Nc | 2013-04-17           |                |              |                   |
| 272264          | 82F 032 0.0-96 A01/A20194 35/3A | Forest Planning & Practices Regulation (FRPA) 86 (3)(d) | Compliance Nc | 2013-04-17           |                |              |                   |
| 272277          | 82F 032 0.0-88 A01/A20194 25/4  | FPC of BC Act 70 (4)(E)                                 | Compliance Nc | 2013-04-17           |                |              |                   |
| 272277          | 82F 032 0.0-88 A01/A20194 25/4  | Forest Planning & Practices Regulation (FRPA) 86 (3)(d) | Compliance Nc | 2013-04-17           |                |              |                   |
| 272279          | 82F 032 0.0-89 A01/A20194 25/5  | FPC of BC Act 70 (4)(E)                                 | Compliance Nc | 2013-04-17           |                |              |                   |
| 272279          | 82F 032 0.0-89 A01/A20194 25/5  | Forest Planning & Practices Regulation (FRPA) 86 (3)(d) | Compliance Nc | 2013-04-17           |                |              |                   |
| Case No         | Site                            | Article                                                 | ERA           | Contravention Status | Outcome Status | Action Taken | Action Taken Date |
| DKL-29730       | A30172 23/8                     | FPC of BC Act 47 (1)                                    |               | Determined           |                | Penalty      | 2012-12-04        |

**From:** [Wiggill, Garth W FLNR:EX](#)  
**To:** [Upward, Katherine K FLNR:EX;](#)  
**Subject:** FW: Disturbance Survey  
**Date:** Tuesday, September 4, 2012 3:25:13 PM  
**Attachments:** [image001.png](#)  
[20120904141123.pdf](#)

---

FYI. I will add this to KLC OTBH folder.

*Garth Wiggill*

**District Manager - Selkirk Resource District**  
**Ministry of Forests, Lands & Natural Resource Operations**  
**Ph 250 825 1101**  
[Mailto:Garth.Wiggill@gov.bc.ca](mailto:Garth.Wiggill@gov.bc.ca)

---

**From** s.22, s.15  
**Sent:** Tuesday, September 4, 2012 2:17 PM  
**To:** Wiggill, Garth W FLNR:EX  
**Subject:** Disturbance Survey

Hello Garth, I have attached the line survey completed by s.22 on CP23 Block 8  
Thanks,

s.22, s.15

s.22, s.15

Schroeder Cr. Disturbance Survey CP23 Block 8  
Chainage                      Disturbance type  
                                    Scalp              RPT Machine  
**Disturbance Survey Line Method**

SU-B2

9.7 ha.

**Line Method**

Line Method Shows 12%

Rut

|     |   |   |
|-----|---|---|
| 0   |   | 4 |
| 25  |   | 4 |
| 50  |   |   |
| 75  |   | 4 |
| 100 |   | 4 |
| 125 |   |   |
| 150 |   | 4 |
| 175 |   |   |
| 200 |   |   |
| 225 |   |   |
| 250 |   |   |
| 275 |   | 4 |
| 300 |   | 4 |
| 325 |   | 4 |
| 350 |   | 4 |
| 375 |   | 4 |
| 400 |   |   |
| 425 |   | 4 |
| 450 |   | 4 |
| 475 |   | 4 |
| 500 | 4 |   |
| 525 |   | 4 |

Survey completed by      s.22      RFT#1396



File: 23060-40 -DKL-29730  
00001925 00

July 4, 2012

**REGISTERED**

Kalesnikoff Lumber Co. Ltd.  
PO Box 3000  
Thrums, BC, V1N 3L8

Dear s.22, s.15

**Re: Opportunity to Be Heard Prior to Determination of Contravention of the  
*Forest Practices Code of British Columbia Act***

Compliance and Enforcement staff has completed an investigation, which has produced evidence indicating you may have contravened section 47(1) of the *Forest Practices Code of British Columbia Act*. Based on this evidence, there may be grounds for a penalty, remediation order, and suspension.

Briefly, the reasons for believing there may be a contravention are as follows:

On A30172 CP 23 Block 8, a soil disturbance survey conducted by Ministry staff indicated that the soil disturbance on SU B exceeded the allowable disturbance specified in the Silviculture Prescription and in the regulations.

As the minister's delegate, I am authorized to make a determination respecting these matters under section 71 of the *Forest and Range Practices Act*.

Before I make a determination, I am offering you an opportunity to be heard. A copy of the Opportunity to be Heard Evidence Binder from Compliance and Enforcement staff, which sets out their case, is attached.

If you would like to use this opportunity to provide written submissions, please provide those submissions by August 15, 2012. If you would prefer an oral hearing, I would be happy to accommodate you, as long as this hearing occurs no later than September 15, 2012. I suggest you review the attached bulletin, which outlines the normal process for an opportunity to be heard prior to a determination of contravention.

Page 1 of 2

Ministry of  
Forests, Lands and  
Natural Resource  
Operations

Selkirk Resource District

1907 Ridgewood Road

Mailing Address:  
1907 Ridgewood Road  
Nelson, BC, V1L 6K1

Tel: 250-825-1100  
Fax: 250-825-9657



If your choice is to proceed by way of an oral hearing, please contact Katherine Upward at 250-825-1100 by August 1, 2012 to arrange a suitable date and time for the hearing.

I am also willing to consider other options, such as a conference call or an informal meeting, if that is your preference. If so, please contact me at 250-825-1100 by August 1, 2012 to discuss other options.

Finally, if you have any questions about the opportunity to be heard, such as how best to prepare for or make use of the opportunity, please feel free to contact Katherine Upward at 250-825-1100.

Please note that, if you do not respond to this offer of an opportunity to be heard, I will assume you have declined the opportunity. I will then proceed with my determination.

Yours truly,

  
Garth Wiggill

~~District Manager~~

Selkirk Resource District

**KURT HUETTMAYER**

ACTING DISTRICT MANAGER

Attachment: The Opportunity to be Heard Process, OTBH Binder

pc: Dan Barron, Regional Manager, Kootenay Boundary Region (without enclosures)



Pages 102 through 117 redacted for the following reasons:

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s.15



File: 23060-20 – DKL-29730  
00001925 00

February 15, 2012

Kalesnikoff Lumber Co. Ltd  
PO Box 3000  
Thrums, BC V1N 3L8

**REGISTERED**

Dear s.22, s.15

**Re: Notice of Investigation under the *Forest Practices Code of British Columbia Act***



I am writing to inform you that we recently conducted an inspection of the following activities carried out under or in relation to Forest License No. A30172

CP 23 block 8 was reviewed for compliance regarding soil disturbance limits for SU B.

The inspection indicated that it is possible that these activities may be in contravention of Section 47 of the *Forest Practices Code of British Columbia Act*. We are currently investigating the matter. The lead investigator is Katherine Upward. Please feel free to contact her at 250-825-1100 if you have any questions about the investigation.

Yours truly,

Katherine Upward  
Compliance and Enforcement Forester  
Kootenay Boundary Region

Page 1 of 1

Ministry of  
Forests, Lands, and  
Natural Resource  
Operations

Kootenay Boundary Region

1907 Ridgewood Road

Mailing Address:  
1907 Ridgewood Road  
Nelson, BC V1L 6K1

Tel: 250-825-1100  
Fax: 250-825-9657

**CASE REPORT  
DKL-29730**

**RE: ALLEGED CONTRAVENTIONS OF  
FPC of BC Act 47 (1)  
BY  
KALESNIKOFF LUMBER CO. LTD.  
ON  
2009-07-31  
AT  
A30172 23/8**

**DISCOVERED ON: 2011-09-22**

**Prepared BY  
Katherine Upward, RPF  
Compliance and Enforcement Kootenay Boundary Region**

**RESOURCE DISTRICT:  
Selkirk Resource District**

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**DKL-29730**

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**BRITISH COLUMBIA FOREST SERVICE  
INCIDENT SUMMARY**

File: DKL-29730

Date: June 26, 2012

Prepared for: Ministry of Forests, Lands and Natural Resource Operations  
Garth Wiggill  
Selkirk Resource District

***Site Photo: A30172 CP 23 Block 8, Overview of SU B***



Location: Schroeder Creek A30172 CP 23 Block 8

Photographed by Peter Jordan, MFLNO, Helicopter Flight 2011-08-29

***List of Contraventions:***

Contravention #1: Forest Practices Code of BC Act, Section 47 (1)

### *Summary of Incident*

#### **2009-06-19**

Silviculture Prescription amendment was completed by s.22, s.15 with **Kalesnikoff Lumber Company Ltd (KLC)** with consultation of s.22, s.15 (**KLC**) and s.22, s.15 (s.22, s.15 (**Hlookoff Logging Ltd.**)) changing the remaining SU B harvest into conventional ground.

#### **2009-07-31**

**Hlookoff Logging Ltd.** completes harvest of CP 23 Block 2 SU B. Excavated trails are then deactivated by **Hlookoff Bulldozing Ltd.** under the supervision of **KLC**. Main skid trails are waterbarred at this time as well. Internal final harvest inspection is completed with no indication of soil disturbance issues or concerns.

#### **2011-08-29**

Helicopter Flight conducted by Peter **JORDAN**, Forest Official (FO) Andy **COSENS** and FO Keith **ROENSPIESS** of the **Ministry of Forests, Lands and Natural Resource Operations** (MFLNRO). Three photographs were taken on this recce and forwarded to FO Katherine **UPWARD** and Mike **CURRAN**, PhD, soil specialist both at the **MFLNRO**.

#### **2011-09-22**

FO **UPWARD**, Mike **CURRAN**, FO **COSENS** and FO **HERMAN** conduct a soil survey on SU B. Soil survey methods and results are found in Appendix 2 in Mike Curran's report. Excavated trails were rehabilitated, main skid trails were water barred, but no decompaction or coarse woody debris placement occurred. The survey found that **KLC** was over the soil disturbance limits specified in their Silviculture Prescription.

Prepared By:

---

Katherine Upward



*OTBH\_DKL-29730\_KLC*

## CONTRAVENTIONS AND ENFORCEMENT OPTIONS

### *Contravention #1: FPC of BC Act, Section 47 (1).*

#### *General Nature of the Contravention:*

Kalesnikoff Lumber Co. Ltd. (KLC) exceeded the prescribed soil disturbance limit for SU B of A30172 CP 23 block 8.

#### *Excerpt from Legislation:*

### **47. Soil conservation: net area to be reforested**

**47. (1) A person carrying out a forest practice on an area under a silviculture prescription must not exceed the maximum amount of soil disturbance within the net area to be reforested that is specified in the prescription.**

(2) Despite subsection (1), a person carrying out timber harvesting operations may, **in accordance with a silviculture prescription, temporarily exceed the maximum amount of soil disturbance** within the net area to be reforested to the extent necessary to **construct temporary access** structures approved in the silviculture prescription if the silviculture prescription provides for soil rehabilitation measures to be carried out to those temporary access structures.

➡(5) A person who, for an area under a site plan prepared under section 21.1 or **silviculture prescription**, causes soil disturbance to occur in the net area to be reforested such that the maximum amount of soil disturbance within the net area to be reforested **is exceeded must rehabilitate the area in accordance with the regulations and standards.**

## **Timber Harvesting and Silviculture Practices Regulation (FPC)**

### **Limits on the amount of soil disturbance**

- 31** (1) In this section, “**sensitive soils**” means soils on an area that through a combination of climate, soil properties, site moisture conditions and site topography have
- (a) in the Interior, a very high soil compaction hazard, soil displacement hazard or soil erosion hazard, and
  - (b) on the Coast, a high or very high soil compaction hazard, soil displacement hazard or soil erosion hazard.
- (2) **A holder of an agreement** under the *Forest Act* must not cause the soil disturbance on the net area to be reforested **within a standards unit to exceed**
- (a) the applicable performance standard, or
  - (b) if there is no applicable performance standard,
    - (i) **5% of the area in the standards unit if the area has sensitive soils**, and
    - (ii) **10% of the area in the standards unit if the area does not have sensitive soils.**



- (4) Despite subsection (2), a holder of an agreement under the *Forest Act* may temporarily exceed the soil disturbance limits referred to in that subsection if
- (a) the extra disturbance
    - (i) is for the construction of temporary access structures or excavated or bladed trails, and
    - (ii) does not exceed 5% of the standards unit, and
  - (b) the holder rehabilitates the area to the extent necessary to bring the area back into compliance with the specified limits.

***Enforcement Action Options***

| Seizure | Remediation Order | Suspension | Cancellation | AAC Reduction |
|---------|-------------------|------------|--------------|---------------|
| Yes     | Yes               | Yes        | Yes          | Yes           |

***Penalty Details:***

|                            |           |
|----------------------------|-----------|
| <b>Max Penalty Amount:</b> | \$100,000 |
|----------------------------|-----------|

***Chronology of Events***

See Appendix 4

***ERA Enforcement History:***

See Appendix 9

## ***Investigator's Conclusion:***

### **47. Soil conservation: net area to be reforested**

**47. (1) A person** (As defined by the Forest Practice Code Act of BC, a forest practice carried out by (i) any person is (A) under an agreement under the Forest Act or Range Act, **KLC** holds an agreement under the Forest Act of a Forest Licence A30172, Appendix 7) **carrying out a forest practice** (As defined by the Forest Practice Code Act of BC a "**forest practice**" means timber harvesting, **KLC** timber harvested CP 23 Block 8 from 2006 to 2009 as stated in FTA, Appendix 7) on an area under a **silviculture prescription** (Appendix 2, silviculture prescription of A30172 CP 23 Block 8 signed off by the District Manager on 2001-12-19) **must not exceed the maximum amount of soil disturbance** (**KLC** exceeded by 14.2% with a total soil disturbance of 19.2% - Appendix 2 Mike **CURRAN**, PhD report on the soil disturbance survey conducted on 2011-09-22) **within the net area to be reforested** (SP amendment #2, NAR is 22.4 total and SU B is 13.8 – Appendix 2) **that is specified in the prescription** (for SU B, 5% with 3% temporary soil disturbance was specified – Appendix 2)

➡(5) A person who, for an area under a site plan prepared under section 21.1 or silviculture prescription, causes soil disturbance to occur in the net area to be reforested such that the maximum amount of soil disturbance within the net area to be reforested is exceeded (*total soil disturbance before rehabilitation was 23% and therefore this section applies*), **must rehabilitate the area in accordance with the regulations and standards**. (see THSPR Section 33 below for rehabilitation requirements on 45(5))➡

### **Furthermore:**

### **Timber Harvesting and Silviculture Practices Regulation (FPC)**

#### **Limits on the amount of soil disturbance**

- 31** (1) In this section, "**sensitive soils**" means soils on an area that through a combination of climate, soil properties, site moisture conditions and site topography have
- (a) in the Interior, a very high soil compaction hazard, soil displacement hazard or soil erosion hazard, and
  - (b) on the Coast, a high or very high soil compaction hazard, soil displacement hazard or soil erosion hazard.
- (2) **A holder of an agreement** (**KLC** holds agreement A30172 a forest licence under the Forest Act) under the Forest Act must not cause the soil disturbance on the net area to be reforested **within a standards unit** (*There are two standards units in CP 23 Block 8, that have been identified as having sensitive soils, the area in question is Standard Unit B, Appendix 2 – silviculture prescription amendment #2*) **to exceed**
- (a) the applicable performance standard, or
  - (b) if there is no applicable performance standard,
    - (i) **5% of the area in the standards unit if the area has sensitive soils**, and (*the survey conducted on 2011-09-22 showed 19.2% of soil disturbance due to loss of forest floor (very wide scalp) and "E Traffic" repeated machine traffic with*

*compaction on the skid trails. The soil disturbance exceeded the specified 5% in the silviculture prescription. Appendix 2, Mike CURRAN's report)*

- (ii) 10% of the area in the standards unit if the area does not have sensitive soils.
- (4) Despite subsection (2), a holder of an agreement under the *Forest Act* may temporarily exceed the soil disturbance limits referred to in that subsection if
  - (a) the extra disturbance
    - (i) is for the construction of temporary access structures or excavated or bladed trails, and *(there was one excavated trail on site but was not part of our "counted" soil disturbance calculations, s.22, s.15 identified more temporary access structures as main skid trails. Appendix 2 – interview notes of 2012-02-23.)*
    - (ii) does not exceed 5% of the standards unit, and *(total soil disturbance prior to rehabilitation is 23% and therefore exceeds more than 5% in regulation or the 3% prescribed in the SP. Appendix 2, Mike CURRAN's report)*
  - (b) the holder rehabilitates the area to the extent necessary to bring the area back into compliance with the specified limits. *(rehabilitation occurred on the temporary excavated trail and was not part of the "counted soil disturbance numbers. Water management was conducted on the main skid trails by creating some water bars along the main skid trails. There were 18.3% of the calls that were on compaction of the main skid trails and other repeated machine traffic areas. Appendix 2, Mike CURRAN's report)*

### Rehabilitation of disturbed areas

- 33 (1) A holder of an agreement under the *Forest Act* (established in the above section) who is required to rehabilitate a disturbed portion of an area under section 46 (4) or 47 (5) or (7) of the Act must
- (a) restore the disturbed portion of the area to a productive state, *(the areas that were deemed as soil disturbance did not have any treatment to them and hence are not restored to a productive state. As per Mike CURRAN's report, risks associated from soil disturbance include effects on hydrology, productivity, potential for increased overland flow, erosion, sedimentation, and invasive plant establishment. Soil disturbance standards were researched to ensure continued site productivity and hydrology after harvesting and silviculture treatments. (Appendix 2))*
  - (b) reduce surface soil erosion in the area, and *(waterbarres were established on the main skid trails)*
  - (c) reasonably mitigate the impact of the forest practice that made the rehabilitation necessary on forest resources that are identified
    - (i) in higher level plans or operational plans, or
    - (ii) by the district manager, if the forest practice was exempted from the requirement of a logging plan or silviculture prescription or site plan. *(not applicable)*

**Table 1. Soil Disturbance Survey Results for SU B and  
Surveyed Area Only (Mike Curran, PhD Appendix 2 )**

| Item                    | Results prorated<br>for the entire SU B |             | Ground-based<br>harvest (surveyed)<br>area only |           |
|-------------------------|-----------------------------------------|-------------|-------------------------------------------------|-----------|
|                         | PT Tally<br>(104<br>points)             | Percent     | Pt Tally<br>(69<br>points)                      | Percent   |
| <b>"Counted"</b>        | 20                                      | <b>19.2</b> | 20                                              | <b>29</b> |
| <b>FF<br/>Displaced</b> | 31                                      | 29.8        | 31                                              | 44.9      |
| <b>All traffic</b>      | 30                                      | 28.8        | 30                                              | 43.5      |
| <b>E traffic</b>        | 19                                      | 18.3        | 19                                              | 27.5      |
| <b>Rehab (r)</b>        | 4                                       | 3.8         | 4                                               | 5.8       |
| <b>T ruts</b>           | 1                                       | 0.96        | 1                                               | 1.4       |
| <b>Count + r</b>        | 24                                      | 23          | 24                                              | 34.8      |
| <b>V</b>                | 13                                      | 12.5        | 13                                              | 18.8      |
| <b>LCL Counted</b>      |                                         | 14.2        |                                                 | 21.9      |

### BACKGROUND CONSIDERATIONS

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Any policy established by the Minister with regard to the legislation involved.<br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2. | The gravity and magnitude of the contravention(s).<br>This contravention is limited to one SU and most of the soil disturbance is in 9.7 hectares of the 13.8 hectares of the SU. Although the contravention is only on part of the SU, the damage of soil disturbance is 14.3% over the allowed limit. Productivity of the 9.7 hectares is limited due to compaction "E traffic" and forest floor displacement. See Mike CURRAN's report for more detail of the loss of productivity and hydrological risks.                                                                                                                                                                                                                                                    |
| 3. | Was the violation(s) repeated or continuous?<br>The violation is not repeated but it is continuous. Logging was completed in 2009 and the trails are still evident on the site in 2011.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4. | Was the contravention(s) deliberate?<br>The investigator found no evidence that this contravention was deliberate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5. | Any economic benefit derived by the person from the contravention(s)?<br>Ground based harvesting is slightly less expensive then cable logging with high lead and grapple.<br><br>s.17, s.21<br><br>KLC did switch harvest systems with SU A and SU B, at the end of harvest though there was 3.1 hectares more conventional then proposed. On top of this, by skidding the area with no excavated trail development KLC would save money on the rehabilitation of the skid trails as skid trails are not defined in legislation as "requiring" rehabilitation (except for exceeding soil disturbance). The cost of deactivation of a road and trail is s.21<br>Creating approximately 1km of excavated trails, rehabilitation could cost about (5-10 hours s.21 |
| 6. | Was the person cooperative and made efforts to correct the contravention(s)?<br>All parties in the investigation have been cooperative. There has been no efforts to correct the contravention as at the time of final harvest neither the logging company nor the licensee determined that a contravention had occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 7. | Previous contraventions of a similar nature by the person, including the enforcement actions taken.<br>Client Name: KALESNIKOFF LUMBER CO. LTD.<br><b>ERA Enforcement History:</b><br><b>Article:</b> FPC of BC Act 45 (3) <b>Action Taken:</b> Remediation<br>Must not perform forest practice if reasonably known to cause environmental damage<br><br><b>Article:</b> FPC of BC Act 67 (1) <b>Action Taken:</b> Penalty<br>Harvest contrary to requirements                                                                                                                                                                                                                                                                                                   |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Article:</b> FPC of BC Act 67 <b>Action Taken:</b> Violation Ticket<br>Harvest contrary to requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 8. | Any other considerations that the Lieutenant Governor in Council may prescribe?<br>none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9. | <p>Other considerations.</p> <p>FRPA</p> <p><b>Defences in relation to administrative proceedings</b></p> <p>72 For the purposes of a determination of the minister under section 71 or 74, no person may be found to have contravened a provision of the Acts if the person establishes that the</p> <ul style="list-style-type: none"> <li>(a) person exercised due diligence to prevent the contravention,</li> <li>(b) person reasonably believed in the existence of facts that if true would establish that the person did not contravene the provision, or</li> <li>(c) person's actions relevant to the provision were the result of an officially induced error.</li> </ul> <p><b>DUE DILIGENCE:</b> The defence of due diligence refers to the care that a person takes in carrying out his or her duties, thereby avoiding a contravention or offence. This investigation has found that <b>KLC</b> had not fully exercised reasonable care to ensure that the contraventions did not occur. This area was originally set up to be cable logged as per the appraisal and Silviculture Prescription. Cable logging of the east side of SU B in 2007 shows no soil disturbance (Appendix 3). <b>KLC</b> identified the site as having low coarse woody debris and very shallow organic material on site (Appendix 2, interview notes, and BEC ESSF wc4 04). Site sensitivity showed the requirement of careful planning of soil disturbance, resulting in a 5% soil disturbance level. This is also documented in both the original SP page 7 –Soil Disturbance Limits and in the Land Management Handbook #20 for BEC series ESSFwc4 – 04 page 164 (Appendix 2). By choosing to apply a conventional harvest treatment to this site, rehabilitation of soil disturbance would be difficult due to these identified site conditions. It was the decision to change the harvest treatment that caused most of the damage on site. <b>KLC</b> has presented their reasoning for changing the SU with some safety and administrative issues involved.(Appendix 2 – Interview notes) but as all of the other units in this block were cable logged, including the east portion of SU B (downhill cable), cable logging of SU B was a feasible option. <b>KLC</b> employees did not fully defend the reasoning to not make a more excavated trails system vs. repeated traffic trails as a better solution. The original SP also references that when conventional harvesting is conducted that “designated trails” are required and “random skidding in not appropriate”. It was also foreseeable that skidding the area down slope could and would cause scalping of the thin forest floor. Other harvest methods were available to <b>KLC</b> and more excavated trails with rehabilitation or cable logging would have likely resulted in lower soil disturbance. Once the decision was made to conventionally harvest the site, due diligence of using low compaction machinery (KMC), frequent inspections and some mitigation of surface water flow occurred. At the end of harvest, no concerns were noted by <b>KLC</b> of soil disturbance despite the amount of forest floor displacement. No soil surveys were conducted by <b>KLC</b> to ensure the site was within the prescribed</p> |

limits of 5 %. Decompaction of the “repeated traffic” skid trails on site did not occur and rehabilitation of forest floor displacement was not available due to site conditions. This defence does not apply in this case.

**MISTAKE OF FACT:** The defence of mistake of fact is available to a person who should not be punished for an alleged wrong doing that was a result of honestly relying on information that, if correct, would not have led to a contravention. The contraventions in this case were not the results of **KLC** relying on incorrect information. This defence does not apply in this case.

**OFFICIALLY INDUCED ERROR:** The defence of officially induced error arises when an accused commits a contravention or offence as a result of having relied on erroneous advice or legal opinion from an official who is responsible for the administration of that particular law. There is no evidence to indicate that **KLC** was given erroneous advice from an official responsible for administering the applicable acts and regulations in this case. This defence does not apply in this case.

**From:** s.22, s.15  
**To:** [Upward, Katherine K FLNR:EX;](#)  
**Subject:** RE: DKL-29730 Agreed Statement of Facts  
**Date:** Monday, August 13, 2012 10:00:52 AM  
**Attachments:** [20120813074804456.pdf](#)

---

s.22, s.15  
Kalesnikoff Lumber Co. Ltd.

---

**From:** Upward, Katherine K FLNR:EX [mailto:Katherine.Upward@gov.bc.ca]  
**Sent:** Thursday, August 09, 2012 11:41 AM  
**To:** s.22, s.15  
**Subject:** DKL-29730 Agreed Statement of Facts

Hi s.22, s.15

As discussed, I have attached the agreed statements of facts. Please circle either agreed or disagreed to the facts of this case and sign and date the bottom. You can send the signed copy my mail , email or fax it. We have the OTBH scheduled for August 29<sup>th</sup> with time yet to be determined.

If you have any questions or concerns, please feel free to contact me,  
Kathy

Katherine Upward, RPF  
C&E Forester  
Kootenay Lake Forestry Center  
1907 Ridgewood Road  
Nelson, BC V1L 6K1

s.17  
250-825-1100 main office  
250-825-9657 fax





Selkirk Resource District  
DKL-29730

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**Proposed: Agreed Statement of Facts**

**Between: Kalesnikoff Lumber Company Ltd. and the Ministry  
of Forests, Lands and Natural Resource Operations**

**With respect to: ERA File # DKL -29730**

This Agreed Statement of Facts has been agreed to by the undersigned with respect to ERA file #DKL-29730 and is intended to inform the Delegated Decision Maker's determination with respect to this matter.

**The facts are with respect to this matter:**

Please circle if you are either in agreement or disagreement with each statement.  
(Return the signed and dated Agreed Statement of Facts by fax or scanned email to Katherine Upward, Kootenay Lake Forestry Centre at 250-825-9657 no later than **August 24, 2012**)

1. Kalesnikoff Lumber Company Ltd. is the licensee of record for Forest License A30172  
☒ Agree ☐ Disagree
2. A30172 CP 23 Block 8 in this investigation is under the Forest Practice Code of British Columbia Act.  
☒ Agree ☐ Disagree
3. The block is under a silviculture prescription.  
☒ Agree ☐ Disagree
4. Kalesnikoff Lumber Company Ltd signed a silviculture amendment prior to the harvest of a portion of SU B (now SU B2 amendment #2) allowing for conventional harvest techniques to be used on that unit.  
☒ Agree ☐ Disagree
5. Hlookoff Logging Ltd harvested SU B2 in the summer of 2008 using conventional harvest techniques.  
☒ Agree ☐ Disagree



Selkirk Resource District  
DKL-29730

6. Kalesnikoff inspected the block at or very near completion of harvest and found no concerns with soil disturbance.

Agree

Disagree

7. SU B2 has a 5% soil disturbance limit as prescribed in the silviculture prescription amendment #2.

Agree

Disagree

8. Hlookoff Building Ltd completed deactivation and rehabilitation on the block post harvest in 2008.

Agree

Disagree

9. Kalesnikoff Lumber Company Ltd. exceeded the maximum allowable soil disturbance of 5% after rehabilitation had occurred.

Agree

Disagree

Agreed upon as fact by:

For Kalesnikoff Lumber Company Ltd.

s.22, s.15

Name \_\_\_\_\_  
(print)

s.22, s.15

(sign)

Date August 13, 2012

For the Ministry of Forests, Lands and Natural Resource Operations

Name Katherine Upward  
(print)

(sign)

Date Aug 13, 2012

**From:** [Wiggill, Garth W FLNR:EX](#)  
**To:** [Upward, Katherine K FLNR:EX;](#)  
**Subject:** RE: DKL-29730 FPC verification  
**Date:** Tuesday, September 11, 2012 1:25:01 PM

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Thanks Kathy

*Garth Wiggill*

District Manager - Selkirk Resource District  
Ministry of Forests, Lands & Natural Resource Operations  
Ph 250 825 1101  
[Mailto:Garth.Wiggill@gov.bc.ca](mailto:Garth.Wiggill@gov.bc.ca)

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**From:** Upward, Katherine K FLNR:EX  
**Sent:** Tuesday, September 11, 2012 12:41 PM  
**To:** Wiggill, Garth W FLNR:EX  
**Subject:** DKL-29730 FPC verification

Hi Garth

The attached documents confirm the legislation of the Forest Practice Code of BC Act applies to CP 23. Kalesnikoff Lumber Company Ltd.'s FSP was approved on July 14, 2005. On page 9 of the FSP, Kalesnikoff indicates that CPs already approved will remain as FPC blocks. CP 23 was issued in 2003 prior to the FSP approval and therefore remains FPC.

Any questions, please feel free to contact me.

Kathy

<< File: A30172\_CP23\_FTA\_issued date.pdf >> << File: Kal\_FSP\_approval\_letter [1].pdf >> << File: Kales\_FSP\_original.pdf >>

Katherine Upward, RPF

C&E Forester

Kootenay Boundary Region

Kootenay Lake Forestry Center

s.17 cell

250-825-1100 main office

[Tenure](#) [CP/Mark](#) [Cut Block](#) [Assoc. Files](#) [Assoc. Client](#) [AAC](#) [Sale Info](#) [Tenure Appl](#) [Notes](#)  
[G Rotation](#) [H Rotation](#) [Cpy Rotation](#) [TL Blk](#) [CP/DB Amend](#) [Per Project](#) [Saw Bunch](#) [Road History](#)

## FTA901 - Cutting Permit List

File: A30172  Type: A01 - Forest Licence Admin Org: RSI - Southern Interior Fore Region  
CP/HVA ID: 23 File Status: HI - Issued As of: 1987-01-01  
Effective Date: 1986-10-20 Expiry Date: 2021-10-18  
Licensee: 00001925 00 KALESNIKOFF LUMBER CO. LTD.

## Road Timber Marks

1 rows returned

District

Timber Mark

✱

DKL

FE60R1

## Cutting Permits

1 rows n

| District | CP/HVA ID | Timber Mark | Salvage Type | Status    | Issue      | Mark<br>Expiry | Extend To  |                                        |                                          |
|----------|-----------|-------------|--------------|-----------|------------|----------------|------------|----------------------------------------|------------------------------------------|
| DKL      | 23        | FE6023      |              | HC Closed | 2003-06-01 | 2006-05-31     | 2011-03-31 | <input type="button" value="Details"/> | <input type="button" value="Cut Block"/> |

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Ministry of Forests &amp;

File: 19500-55/A20194 (Arrow Boundary Forest District)  
✓ 19500-55/A30172 (Kootenay Lake Forest District)

July 14, 2005

s.15, s.22

Kalesnikoff Lumber Company Ltd.  
Box 3000  
Thrums BC V1N 3L8

Dear s.15, s.22

*Note: this letter cancels and replaces the approval letter dated April 27, 2005. This replacement is necessary in order to correct some typographical errors that were present in that document and to clarify my rationale for approval.*

Your Forest Stewardship Plan submission dated February 16, 2005 for Forest Licences A20194, located in the Arrow Boundary Forest District, and A30172, located in the Kootenay Lake Forest District, has now been fully reviewed.

### Determination

I am satisfied that the plan submitted for approval has been prepared in accordance with section 5 of the *Forest and Range Practices Act* (FRPA) and regulations

Accordingly as the Designated Decision Maker under Section 16 of FRPA I hereby approve your Forest Stewardship Plan. The term of your plan is from April 27, 2005 to April 26, 2010.



VANCOUVER 2010



Further forest development planning must be done in accordance with this approved Forest Stewardship Plan.

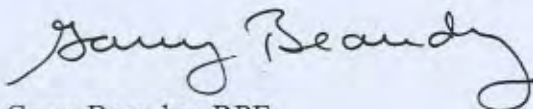
**Rationale:**

I offer the following rationale for Forest Licences A20194 and A30172 Forest Stewardship Plan approval:

1. I feel the referrals undertaken by the licensee for this Forest Stewardship Plan were adequate.
2. Your Forest Stewardship Plan was made available for the required period of time. I note that comments were received from the public and that you have adequately considered their comments.
3. I am satisfied that the referral process undertaken by Kalesnikoff Lumber Company Ltd has adequately informed the various bands and nations about the company's intent of developing timber harvesting opportunities within both the Kootenay Lake Forest District and the Arrow Boundary Forest District.
4. The Forest Stewardship Plan was submitted for approval in accordance with the Forest and Range Practices Act and the associated regulations.
5. I am aware that many of the sections noted in the Forest Stewardship Plan state that "default practice requirements" will be followed.
6. I feel that the results or strategies noted in the Forest Stewardship Plan are consistent with the objectives and will be both measurable and verifiable.
7. I note that the results or strategies stated in the Forest Stewardship Plan are consistent with the objectives for which they apply.
8. I note the Forest Stewardship Plan commits Kalesnikoff Lumber Company Ltd. to informing individual water licensees when stand level development occurs within each Forest Development Unit.

If you have any questions please contact either Rob McRory or Dale Anderson at the Kootenay Lake Forest District or Tara DeCourcy at the Arrow Boundary Forest District.

Yours truly,



Garry Beaudry, RPF  
District Manager  
Kootenay Lake Forest District

pc: Larry Peitzsche, District Manager, Arrow Boundary Forest District  
Mike Knapik, ES, WLAP

# FOREST STEWARDSHIP PLAN

Term: 5 years

Arrow/Boundary and Kootenay Lake Forest Districts

Kalesnikoff Lumber Co. Ltd.  
Forest Licenses A20194 and A30172  
Box 3000  
Thrums, BC  
V1N 3L8  
E-mail: [s.22, s.15@kalesnikoff.com](mailto:s.22, s.15@kalesnikoff.com)  
Phone: (250) 399-4211  
Fax: (250) 399-4170

Authorised Licensee and RPF Signature: \_\_\_\_\_

Name: s.22, s.15 Development Forester

Date: \_\_\_\_\_

Location for RPF Seal



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## 1.0 Introduction

This Forest Stewardship Plan (FSP) has been prepared for Kalesnikoff Lumber Co. Ltd. (KLC) Forest Licenses A20194 and A30172 located within the Arrow and Kootenay Lake Timber Supply Areas (TSA's). KLC operating areas are located in complex topography, ranging from upland plateau through to steep mountainous terrain. The interplay between the topography and the social, economic, and environmental values present in these operating areas creates complex challenges that demand higher levels of planning and public involvement in order to achieve balanced resource use within the crown forests. Operating areas are largely distributed in the vicinity of the communities of Castlegar and Nelson, mostly along the scenic slopes of the Kootenay River, Columbia River, and Slocan River Valleys.

The FSP is a landscape level plan, which is focused on establishing strategies and results for conserving and protecting timber and non-timber resource values for forest management activities. The FSP states measurable, enforceable results and strategies that must be consistent with objectives set by government for a variety of forest values (e.g. fish, water, biodiversity, etc.). The FSP takes direction from the Kootenay Boundary Higher Level Plan Order (KBHLPO), the Forest and Range Practices Act (FRPA), the Land Act (LA), the Drinking Water Protection Act (DWPA), the Government Actions Regulation (GAR), and the Forest Planning and Practices Regulation (FPPR), grandfathered sections of the Forest Practices Code Act of British Columbia (FPC), and other pertinent legislation that governs forest practices. The FSP is the primary referral process for notifying the public, First Nations, and government agencies as to the future location of Forest Development Units (FDU's) and the strategies and results that will apply to the respective FDU's.

The FSP process promotes a consultative methodology that is intended to:

1. Maintain or improve current legislated environmental standards;
2. Encourage local community, government agency, and First Nation's involvement early in the planning process, moving from review and comment on plan proposals to participation prior to and during the planning process;
3. Provide flexibility to adapt to market fluctuations, forest health emergencies, and changing customer demands;
4. Focus on landscape level planning, providing for identification, protection, and conservation of forest resources and resource features prior to harvest planning; and
5. Shift the forest management focus from office approvals to field results, emphasizing an adaptive management approach to facilitate continual improvement.

### ***Forest Development Unit (FDU) Designations***

Forest Development Units (FDU's) identify areas of planned development activities in the next 5 years. These FDU's are general in nature and do not reflect the final development outcomes for a particular FDU. These FDU's are identified within KLC's traditional operating areas within the Arrow and Kootenay Lake TSA's. 1:20000 scale maps indicating the FDU's are located within Appendix III.

| TSA                                                    | Chart – Forest Development Unit's (FDU) | Area (hectares) |
|--------------------------------------------------------|-----------------------------------------|-----------------|
| Arrow – FLA20194<br>AAC – 34703 m <sup>3</sup>         | Deer                                    | 8088            |
|                                                        | Gander                                  | 9034            |
|                                                        | Glade                                   | 2569            |
|                                                        | Merry                                   | 2763            |
|                                                        | Rialto                                  | 9506            |
|                                                        | <b>Total</b>                            | <b>31960</b>    |
| Kootenay Lake – FLA30172<br>AAC – 55247 m <sup>3</sup> | Apex                                    | 4069            |
|                                                        | Blewett                                 | 11052           |
|                                                        | Falls                                   | 2002            |
|                                                        | Grohman                                 | 16536           |
|                                                        | Schroeder                               | 4354            |
|                                                        | <b>Total</b>                            | <b>38013</b>    |

### ***Content Requirements***

Content requirements of a FSP are described in the Forest and Range Practices Act and its associated Forest Planning and Practices Regulation.

A separate document, KLC's ***Planning Procedures for the Arrow/Boundary and Kootenay Lake Forest Districts***, provides supporting information for this plan. The supporting document is primarily prepared to ensure a consistent approach to planning is undertaken within

KLC operations. This document will be made available to members of the public (if requested) to provide context to the main FSP, but it is not considered part of the legal realm of the Forest Stewardship Plan.

### 1.1 Declared Areas

Cutblocks and roads that achieve the criteria of Section 196(1) (previously approved Category A where all pertinent assessments are complete) are afforded protection from a previously approved Forest Development Plan into this FSP. These cutblocks and roads are shown on the FSP maps and will be declared upon approval of this FSP. These Section 196(1) blocks and roads are not subject to review and comment for the purposes of this FSP.

In addition, KLC will periodically submit "Declared Areas" notifications for those future cutblocks and roads that are substantially developed and that can be measured against the strategies and results of this document. Appendix IV – Declared Areas, will summarize blocks and roads achieving this status.

## 2.0 Public Review and Comment

Previous Forest Development Plan (FDP) methodology under the Forest Practices Code Act (FPCA) required licensees to focus development activities prior to public review and comment. This planning practice often required a great deal of "up-front" development work to formulate stand level plans that could then be assessed and critiqued by the public.

The Forest Stewardship Planning process provides for an alternative methodology whereby other resource users are required to identify areas of concern within FDU's at the FSP stage to ensure that concerns are addressed prior to development of the area. Further referral can be arranged at the FSP stage if knowledge of the final block shape is required to determine impacts on other resource users (i.e. visual resources, water values). Comments specific to the FDU's will be recorded and kept on record to ensure that concerns are considered at the development stage. If requested, affected stakeholders will be provided proposed block shapes and road locations and given an opportunity (15 Days) to provide comments prior to cutting permit application by the company.

This FSP is the main operational planning tool and referral document for KLC's Forest Licenses A20194 and A30172 within the Arrow and Kootenay Lake TSA's in the Southern Interior Forest Region. This plan is used for both "in-house" planning of harvesting and fieldwork and as the principal referral document for other resource users. The plan is produced every five years with the option of extending it for another 5 years. The Forest Stewardship Plan was made available for public review at the KLC office in Thrums for a period of not less than 60 days. The general public was made aware that the FSP was available for review and comment through advertisements placed in the local newspapers, and through referral notices that were sent out to potentially affected stakeholders. The FSP was made available for public review at KLC's office located in Thrums during regular business hours 8 a.m. to 4 p.m. Monday through Friday. Additionally, KLC posted the FSP on the company website ([www.kalesnikoff.com](http://www.kalesnikoff.com)) with a link for the public to provide written comments on the plan. KLC provided a referral notice and requested a meeting with appropriate First Nations Representatives to discuss the FSP document. Written comments received during the review period as well as revisions made during the referral period are summarized in Appendix II and V.

## 3.0 Higher Level Plans

This FSP is prepared in concert with the most current version of the Kootenay Boundary Higher Level Plan Order (KBHLPO) (effective October 26, 2002), and its approved variances current to February 15, 2005.

## 4.0 Objectives, Strategies, and Results

Critical to the preparation of the FSP is the recognition of the values identified either in the legislation, subject authority under Section 3-5 of the Forest Practices Code Act (with respect to the KBHLPO) and any grand-parented objectives that apply to the area proposed to be covered by the FSP. Objectives, strategies, and results have been developed by KLC consistent with the FRPA and FPPR. Generally, strategies and results apply generically across all FDU's. Objectives, results, and strategies are defined as follows:

**Objectives set in regulation:** These objectives are explicitly stated in the FPPR and apply provincially.

**Objectives enabled by regulation:** The GAR provides authority to the Ministers of Forests; Water, Land, and Air Protection; and Sustainable Resource Management to establish objectives for certain items described in the regulation. These objectives can apply at many different scales.

**Land Use Objectives:** These are objectives specific to a certain area that have been established through a Landscape Unit Plan or another Higher Level Plan such as the Kootenay Boundary Higher Level Plan Order. The Minister of Sustainable Resource Management sets these objectives.

**Strategies:** These are measurable or verifiable steps or practices that will be carried out in order to meet a particular established objective, and describe the situations or circumstances that determine where in a forest development unit the steps or practices will be applied.

**Results:** These are a description of measurable or verifiable outcomes in respect of a particular established objective, and the situations or circumstances that determine where in a forest development unit the outcomes will be applied.

#### 4.1 Objectives set by government for soils (FPPR Section 5)

The objective set by government for soils is, without unduly reducing the supply of timber from British Columbia's forests, to conserve the productivity and the hydrologic function of soils.

| Element                                | Strategy/Results                                                                     |
|----------------------------------------|--------------------------------------------------------------------------------------|
| Soil disturbance limits                | Default practice requirements outlined in section 35 of the FPPR will be followed.   |
| Limits for permanent access structures | Default practice requirements outlined in section 36 of the FPPR will be followed.   |
| Landslides                             | Default practice requirements outlined in section 37 of the FPPR will be followed.   |
| Gully processes                        | Default practice requirements outlined in section 38 are not applicable to this FSP. |
| Natural surface drainage patterns      | Default practice requirements outlined in section 39 of the FPPR will be followed.   |
| Revegetation                           | Default practice requirements outlined in section 40 of the FPPR will be followed.   |

#### 4.2 Objectives set by government for timber (FPPR Section 6)

*The objective set by government for timber is to*

- (a) *maintain or enhance an economically valuable supply of commercial timber from British Columbia's forests,*
- (b) *ensure that delivered wood costs, generally, after taking into account the effect on them of the relevant provisions of this regulation and of the Act, are competitive in relation to equivalent costs in relation to regulated primary forest activities in other jurisdictions, and*
- (c) *ensure that the provisions of this regulation and of the Act that pertain to primary forest activities do not unduly constrain the ability of a holder of an agreement under the Forest Act to exercise the holder's rights under the agreement.*

*By virtue of Section 12(8) of the FPPR, results and strategies are not required for the objectives set by government for timber.*

| Element                         | Strategy/Results                                                                                        |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Free Growing Stand              | On all FDU's within the FSP area, utilise the stocking standards as provided in Appendix I of this FSP. |
| Modification of Insect Behavior | Default practice requirements outlined in section 41 of the FPPR will be followed.                      |
| Use of seed                     | Default practice requirements outlined in section 43 of the FPPR will be followed.                      |
| Use of livestock                | Default practice requirements outlined in section 42 are not applicable to this FSP.                    |

*Legal objectives & strategies contained within the Kootenay-Boundary Higher Level Plan Order KBHLPO.*

| KBHLPO Objectives Supporting FRPA Value                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Objective 7 – Enhanced Resource Development Zones – Timber:</b> This objective is not applicable to the FDU areas at the time of FSP development as none of KLC's operations are located within an Enhanced Resource Development Zone.</p> <p><b>Objective 10 – Forest Economy:</b> This objective is not applicable to the FSP process as objective analysis is the requirement of government.</p> |

#### 4.3 Objectives set by government for wildlife (FPPR Section 7)

*The objective set by government for wildlife is, without unduly reducing the supply of timber from British Columbia's forests, to conserve a sufficient wildlife habitat in terms of amount of area, distribution of areas, and attributes of those areas, for*

- (a) *the survival of species at risk,*
- (b) *the survival of regionally important wildlife, and*
- (c) *the winter survival of specified ungulate species.*

### Objectives set by government for wildlife and biodiversity – (FPPR Section 9 and 9.1)

The objective set by government for biodiversity at the landscape level is, without unduly reducing the supply of timber from British Columbia's forests, to design areas, on which timber harvesting is to be carried out, that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape. The objective set by government for wildlife, and for biodiversity at the stand level is, without unduly reducing the supply of timber from British Columbia's forests, to retain wildlife trees.

|                                                |                                                                                                                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Wildlife habitat areas and objectives</b>   | Practice requirements not applicable to FDU's at time of FSP development, as Wildlife Habitat Areas have not been established within KLC operating areas under Section 10 of the GAR.   |
| <b>Wildlife habitat features</b>               | Practice requirements not applicable to FDU's at time of FSP development, as Wildlife Habitat Features have not been identified within KLC operating areas under Section 11 of the GAR. |
| <b>Maximum cutblock size</b>                   | Default practice requirements outlined in section 64 of the FPPR will be followed.                                                                                                      |
| <b>Harvesting adjacent to another cutblock</b> | Practice requirements under Objective 4 of the KBHLPO will be followed.                                                                                                                 |
| <b>Wildlife tree retention</b>                 | Default practice requirements outlined in section 66 of the FPPR will be followed.                                                                                                      |
| <b>Restriction on harvesting</b>               | Default practice requirements outlined in section 67 of the FPPR will be followed.                                                                                                      |
| <b>Coarse Woody Debris</b>                     | Default practice requirements outlined in section 68 of the FPPR will be followed.                                                                                                      |

### FPPR Section 7 – Ungulate Winter Range

FPPR Section 7 Notices have been enacted by the Minister Responsible for the Wildlife Act. These notices provide indicators of the amount, distribution, and attributes of wildlife habitat required for the winter survival of ungulate species for specified Landscape Units in the Arrow and Kootenay Lake Timber Supply Areas.

**Result/Strategy:** To ensure the stewardship of habitat required to sustain populations of wintering ungulates in these landscape units, the forest cover requirements prescribed in the following table will be applied over the vegetated portions of the Ungulate Winter Range Management Units (refer to Appendix 3 – Ungulate Winter Ranges Map), excluding water, private land, Federal Land, Protected Areas, and broadleaf polygons (as defined in the BC Land Cover Classification Scheme).

**Forest Cover Requirements for Ungulate Winter Range**

| Ungulate Winter Range Attribute | Priority ungulate species | BEC subzones | Minimum forest cover area | Forest Characteristics |                         |
|---------------------------------|---------------------------|--------------|---------------------------|------------------------|-------------------------|
|                                 |                           |              |                           | Age (yrs)              | Evergreen Crown Closure |
| Snow Interception Cover         | Mule deer                 | IDFun        | 20%                       | ≥81                    | 10-20%                  |
|                                 |                           | ICHdw        | 30%                       | ≥81                    | ≥40%                    |
|                                 |                           | ICHmw2       | 40%                       | ≥101                   | ≥40%                    |
|                                 | Elk                       | IDFun        | 10%                       | ≥81                    | ≥40%                    |
|                                 |                           | ICHdw        | 20%                       | ≥81                    | ≥40%                    |
|                                 |                           | ICHmw2       | 30%                       | ≥101                   | ≥40%                    |
| Forage Area                     | All Species               | All subzones | 10%                       | ≥81                    | dispersed or patches    |

- Forest cover requirements and characteristics prescribed in the above table are applied within an Ungulate Winter Range Management Unit for single priority ungulate species areas by Biogeoclimatic Subzones [BEC].
- In instances where an Ungulate Winter Range Management Unit contains more than one BEC, the forest cover requirement for the BEC that occupies the greater area is applied.
- No more than 40% of the area over which the forest cover requirements are applied is to be in an early seral stage at any given time. For this purpose early seral is defined as stands less than 21 years in age.
- Forest cover requirements prescribed for Forage Management Units are determined from the sum of all Forage Management Units within the Ungulate Winter Range Management Unit. When spatially applied, forest cover distribution can be disproportionate among these Forage Management Units.
- All forest stands situated on the Provincial Forest land base which meet the characteristics described in Table 1, including areas which are inoperable or constrained for timber harvesting, contribute to meeting this objective.

- Forest age is based on best available information.
- Forest stands with suitable snow interception characteristics which are younger than the ages prescribed in Table 1 can contribute to meeting this objective in instances where a Qualified Professional has confirmed through field assessment that the younger stands have suitable snow interception characteristics.
- Forest stands meeting the ages specified in Table 1 which have previously been subject to light partial cutting can contribute to meeting this objective in instances where a Qualified Professional has confirmed through field assessment that these stands have suitable snow interception characteristics.
- In instances where forest retention requirements are in deficit, a spatially explicit recruitment strategy must be submitted to the MWLAP Regional Manager of Environmental Stewardship Division for approval prior to additional timber harvesting taking place.
- This objective does not affect operational needs to address wildfires and serious forest health issues, including the salvage of timber.
- This objective does not affect operational plans required for construction of trails or roads.

#### FPPR Section 7 – Species at Risk

FPPR Section 7 Notices have been enacted by the Minister Responsible for the Wildlife Act. These notices provide indicators of the amount, distribution, and attributes of wildlife habitat required for the winter survival of species at risk in the Arrow and Kootenay Lake Timber Supply Areas.

##### Result/Strategy Kootenay Lake District:

Coeur d'Alene Salamander (*Plethodon idahoensis*) – Results and Strategies are not provided as there are no inventoried occurrence sites of the species within or adjacent to the FDU's.

Rocky Mountain Tailed Frog (*Ascaphus montanus*) – Results and Strategies are not provided as there are no inventoried occurrence sites of the species within or adjacent to the FDU's.

##### Result/Strategy Arrow Forest District:

Coeur d'Alene Salamander (*Plethodon idahoensis*) – Results and Strategies are not provided as there are no inventoried occurrence sites of the species within or adjacent to the FDU's.

Flammulated Owl (*Otus flammeolus*) – Results and Strategies are not provided as there are no inventoried occurrence sites of the species within or adjacent to the FDU's.

"Interior" Western Screech Owl (*Otus kennicottii macfarlanei*) – Results and Strategies are not provided as there are no inventoried occurrence sites of the species within or adjacent to the FDU's.

Regardless of the inventory data, the attributes provided for the Species at Risk in the Section 7 Notices may indicate potential habitat for a particular species at risk. Should any of the species at risk be observed outside of the known occurrence sites, KLC will notify the Minister responsible for the Wildlife Act of its existence prior to implementation of development activities.

#### *Legal objectives & strategies contained within the Kootenay-Boundary Higher Level Plan Order KBHLPO.*

#### KBHLPO Objectives Supporting FRPA Value

**Objective 1 – Biodiversity Emphasis:** The Arrow and Kootenay Lake Forest Districts have legally established Landscape Unit (LU) boundaries and assigned Biodiversity Emphasis Options (BEO's) within each landscape unit. LU's are summarized in the companion document.

**Objective 2 – Old and Mature Forest:** Section 2 of the KBHLPO provides practice rules that will be utilized for the term of this FSP.

**Objective 3 – Caribou:** Section 3 of the KBHLPO provides practice rules that will be utilized for the term of this FSP. The Apex FDU is the only operating area that contains Resource Management Zones (RMZ's) designated for caribou. For the term of this FSP, no new cutting permits or road permits will be proposed in RMZ's designated for caribou.

**Objective 4 – Green-up:** Section 4 of the Kootenay-Boundary Higher Level Plan Order provides practice rules that will be utilized for the term of this FSP.

**Objective 5 – Grizzly Bear Habitat and Connectivity Corridors:** Mapping of important grizzly bear habitat has not been completed or made available by the Ministry of Sustainable Resource Management (MSRM). Connectivity corridors have been mapped and will be utilized for the purposes of allocating mature and old targets as stated under Objective 2 – Old and Mature Forest.

**Objective 8 – Fire-maintained Ecosystems:** Section 8 of the Kootenay-Boundary Higher Level Plan Order provides practice rules that will be utilized for the term of this FSP. The Deer FDU is the only operating area that contains NDT4 ecosystems (those considered to be fire-maintained ecosystems) as defined in the KBHLPO. For the term of this FSP, no new cutting permits or road permits will be proposed in these ecosystem types.

#### 4.4 Objectives set by government for water, fish, wildlife, and biodiversity within riparian areas (FPPR Section 8)

The objective set by government for water, fish, wildlife and biodiversity within riparian areas is, without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.

| Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Strategy/Results                                                                                                                                                                                                   |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------|------------------|------|----|------|----|------|----|-----|---------------------------|--|-------------|------|
| Stream riparian classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Default practice requirements outlined in section 47 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Wetland riparian classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Default practice requirements outlined in section 48 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Lake riparian classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Default practice requirements outlined in section 49 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Restrictions in a riparian management area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Default practice requirements outlined in section 50 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Restrictions in a riparian reserve zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Default practice requirements outlined in section 51 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| <b>FPPR Section 12(3) – Restrictions in a Riparian Management Zone</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                    |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Default practice requirements outlined in section 52 of the FPPR will be followed. Additionally, the following strategy will be employed for retaining trees in a riparian management zone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                    |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| <p style="text-align: center;"><b>Result/Strategy: Riparian Management Zone Retention</b></p> <table> <tr> <th>Stream Class</th><th>Minimum Level of Basal Area Retention</th></tr> <tr> <td>S1A, S1B, S2, S3</td><td>≥20%</td></tr> <tr> <td>S4</td><td>≥10%</td></tr> <tr> <td>S5</td><td>≥10%</td></tr> <tr> <td>S6</td><td>N/A</td></tr> <tr> <td colspan="2"><b>Wetlands and Lakes</b></td></tr> <tr> <td>All Classes</td><td>≥10%</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                    | Stream Class | Minimum Level of Basal Area Retention | S1A, S1B, S2, S3 | ≥20% | S4 | ≥10% | S5 | ≥10% | S6 | N/A | <b>Wetlands and Lakes</b> |  | All Classes | ≥10% |
| Stream Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Minimum Level of Basal Area Retention                                                                                                                                                                              |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| S1A, S1B, S2, S3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≥20%                                                                                                                                                                                                               |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| S4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≥10%                                                                                                                                                                                                               |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| S5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ≥10%                                                                                                                                                                                                               |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| S6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N/A                                                                                                                                                                                                                |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| <b>Wetlands and Lakes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                    |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| All Classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ≥10%                                                                                                                                                                                                               |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| <p><b>Selection of leave trees within an RMZ:</b> Remove windthrow prone and bark beetle infested trees. Retain wildlife trees, non-merchantable stems, and understorey vegetation. Focus retention within 10 metres of the channel or riparian reserve zone, only if windfirm. Note: In all cases, the specific riparian management prescription must be specified in applicable site plans. In some cases, more than the basal area retention targets specified may be retained to account for specific issues (i.e. to windfirm boundaries, temperature sensitive streams, operability constraints, etc.). Safety considerations and adherence to WCB Regulations will play a key role in determining the specific options. Application of general management objectives will be most difficult in the case of S6 streams, particularly in areas where cable yarding systems are prescribed. In these areas, every effort will be made to avoid disturbance of stream banks and to prevent deposition of debris in the channel.</p> |                                                                                                                                                                                                                    |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Temperature sensitive streams                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Default practice requirements outlined in section 53 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Fan destabilization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Default practice requirements outlined in section 54 are not applicable to this FSP.                                                                                                                               |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Stream Crossings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Default practice requirements outlined in section 55 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Fish Passage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Default practice requirements outlined in section 56 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Protection of Fish and Fish Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Default practice requirements outlined in section 57 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Use of livestock in riparian areas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Default practice requirements outlined in section 58 are not applicable to this FSP.                                                                                                                               |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Protecting water quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Default practice requirements outlined in section 59 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Licensed waterworks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Default practice requirements outlined in section 60 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Excavated or bladed trails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Default practice requirements outlined in section 61 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Roads in a community watershed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Default practice requirements outlined in section 62 of the FPPR will be followed.                                                                                                                                 |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Use of fertilizers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Default practice requirements outlined in section 63 are not applicable to this FSP.                                                                                                                               |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |
| Community watersheds and water quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Practice requirements not applicable to FDU's at time of FSP development, as Water Quality Objectives have not been established for the Community Watersheds located within KLC operating areas under Section 8 of |              |                                       |                  |      |    |      |    |      |    |     |                           |  |             |      |

|                                |                                                                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| objectives                     | the GAR.                                                                                                                                                                                                |
| Fisheries sensitive watersheds | Practice requirements not applicable to FDU's at time of FSP development, as Fisheries Sensitive Watershed Objectives have not been established within KLC operating areas under Section 14 of the GAR. |
| Lakeshore management zone      | Practice requirements not applicable to FDU's at time of FSP development, as Lakeshore Management Zones and Objectives have not been established within KLC operating areas under Section 6 of the GAR. |

*Legal objectives & strategies contained within the Kootenay-Boundary Higher Level Plan Order KBHLPO.*

| HLPO Objectives Supporting FRPA Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Objective 6 – Consumptive Use Streams:</b><br>Objective 6 refers to streams located within domestic watersheds. Section 6 of the KBHLPO provides practice rules that will be utilized for the term of this FSP. Given the extensive water licensing within KLC's operating areas, individual water license holders will not be provided with direct referrals during the public advertising of this FSP. Instead, water licensees will be notified of proposed development activities as stand level developments are proposed within the larger FDU's. |  |

#### **4.5 Objectives set by government for cultural heritage resources – (FPPR Section 10)**

*The objective set by government for cultural heritage resources is to conserve, or, if necessary, protect cultural heritage resources that are*

- (a) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and*
- (b) not regulated under the Heritage Conservation Act.*

| Element                                                                           | Strategy/Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cultural heritage resource not regulated by the Heritage Conservation Act.</b> | <p>The FSP referral process encourages direct discussions with affected First Nation's representatives that are focused on establishing standardized procedures for referring proposed developments to the various Bands and Nations with regards to the management of Cultural Heritage and traditional use resources. In this regard, KLC began the process by sending referral letters to the following First Nation Tribal Councils and Bands:</p> <p><b>Ktunaxa/Kinbasket Tribal Council</b><br/>         Lower Kootenay Indian Band</p> <p><b>Okanagan Nation Alliance</b><br/>         Lower Similkameen Indian Band<br/>         Okanagan Indian Band<br/>         Osoyoos Indian Band<br/>         Penticton Indian Band<br/>         Upper Similkameen Indian Band<br/>         Westbank First Nation<br/>         Spallumcheen Indian Band</p> <p>In addition to referral letter issuance, KLC proceeded to follow-up with the Okanagan Nation Alliance, the Ktunaxa/Kinbasket Tribal Council, and the Lower Kootenay Indian Band through phone discussions and email exchanges to set up times to review the FSP document and more specifically discuss issues of Cultural Heritage and Traditional Use Resources. These informal discussions are documented as attachments in Appendix 2 of this document. Also included in the appendix are two response letters from the Spallumcheen Indian Band and the Westbank First Nation, which are the only formal documentation received during the review and comment period.</p> <p>At the time of the final FSP submission, KLC has yet to meet directly with any of the First Nation's groups with respect to the FSP. However, KLC has committed to continue dialogue regarding cultural/ traditional use values with the First Nation groups and to provide information when and if requested by those parties. KLC will also continue its regular involvement in Ministry of Forest's led consultation tables as they exist for both the Ktunaxa/Kinbasket Tribal Council and the Okanagan Nation Alliance, as these tables provide greater opportunities to meet with First Nation's representatives.</p> |

#### **4.6 Objectives Set by Government for Visual Quality (FPPR Section 9.2)**

*This objective set by government does not contain specific text within the FPPR as specified in other objectives set by government. This objective set by government has a corresponding objective as contained in the Kootenay-Boundary Higher Level Plan Order KBHLPO and*



*District Level Visual Quality Objectives established prior to October 24, 2002 (continued under Section 181 of FRPA and Section 17 of the GAR). The results and strategies provided for this objective attempts to clarify the relationship between the HLPO objective for Visuals (Scenic Areas and Classes) and the District Level Visual Quality Objectives grandfathered under FRPA.*

*Legal objectives & strategies contained within the Kootenay-Boundary Higher Level Plan Order KBHLPO.*

| HLPO Objectives Supporting FRPA Value |
|---------------------------------------|
|---------------------------------------|

|                               |
|-------------------------------|
| <b>Objective 7 – Visuals:</b> |
|-------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The KBHLPO designates scenic areas within KLC's traditional operating areas. Grandparented district level Visual Quality Objectives (VQO's) provide context to and meet the requirements of the scenic area designations. On all FDU's, a visual assessment will be carried out for planned developments that are located in an area with a Visual Quality Objective. The visual assessment will review the visual landscape from major viewpoints and determine the percent alteration on a perspective view basis. Visual modification on a perspective scale will follow the guidance and strategies described in the <i>Visual Impact Assessment Guidebook</i> (2 <sup>nd</sup> . Ed., January 2001) for those areas that are deemed to be located within a Visual Quality Objective (VQO) of Preservation (P), Retention (R), Partial Retention (PR), or Modification (M). Where the recommended limits of the <i>Visual Impact Assessment Guidebook</i> are exceeded, a rationale will be provided in the VIA or corresponding Site Plans. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 4.7 Other FSP Values

| Element                                                                                                 | Strategy/Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Invasive plants                                                                                         | Occurrence of knapweed and thistle is pervasive in the ICH and IDF biogeoclimatic zones, being particularly problematic along roads, on landings, and on disturbed sites (i.e. transmission corridors). Diligent revegetation of disturbed areas following road construction, landing rehabilitation, and road deactivation is KLC's principle method of reducing colonization by invasive plants. Newly constructed roads and deactivated roads and landings will be grass seeded as soon as feasible and within one year of disturbance to limit the spread of invasive plant species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Karst                                                                                                   | Resource feature not applicable to FDU's at time of FSP development, as karst has not been identified as a resource feature within KLC operating areas under Section 5 of the GAR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Range Development                                                                                       | Resource feature not applicable to FDU's at time of FSP development, as range or livestock structures, excavations, or trails have not been identified as resource features within KLC operating areas under Section 5 of the GAR. As there are no grazing tenures within the FDU's, range barriers are not considered to be an issue.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Research or experimental lands                                                                          | One known research installation has been formally established within KLC's operating area. KLC is an active participant in the Long Term Soil Productivity trial located in the Rover Creek operating area. KLC will continue to cooperate with the Research Proponents to further the development of this ongoing project, even though the research or experimental lands have not been identified as resource features within KLC operating areas under Section 5 of the GAR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Permanent sample site snow courses                                                                      | Resource feature not applicable to FDU's at time of FSP development, as permanent sample site snow courses have not been identified as resource features within KLC operating areas under Section 5 of the GAR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Interpretive forest site, recreation site, recreation facility, recreation feature, or recreation trail | <p>KLC will continue to respect the qualities and objectives associated with the numerous commercial and MOF established recreation sites within KLC's operating areas. MOF recreation sites grandfathered under section 180 of FRPA have established objectives which will be respected by the company. Commercial recreation ventures do not fall under this category.</p> <ul style="list-style-type: none"> <li>• Coolie Lake – Gander Chart – Arrow</li> <li>• Deer Creek Falls Trail System – Deer Chart – Arrow</li> <li>• Merry Creek Interpretive Trails – Merry Chart – Arrow</li> <li>• Baldface Lodge – Grohman Chart – Kootenay Lake</li> <li>• Elephant Mountain Trails – Grohman Chart – Kootenay Lake</li> <li>• Hall Creek Siding Ski Trails – Kootenay Lake</li> <li>• Nelson Nordic Ski Club – Kootenay Lake</li> <li>• Saddle Hut (Nelson Sno-Goers) – Kootenay Lake</li> <li>• Schroeder Creek Trail – Schroeder Chart – Kootenay Lake</li> <li>• Six Mile Lakes – Grohman Chart – Kootenay Lake</li> <li>• Snowater Creek Lodge – Blewett Chart – Kootenay Lake</li> <li>• Whitewater Ski and Winter Resort – Apex Chart – Kootenay Lake</li> </ul> |

#### 5.0 Additional FSP Information

In addition to the objectives, strategies, and results, there are several other items to be addressed in this FSP.

##### 5.1 Areas under CP/RP

Areas under existing cutting permit or road permit are shown on the FSP maps. These existing permits will not be rolled into FRPA; thus, they will continue to be administered under the statutes in place at the time of their approvals.

##### 5.2 Stocking Standards

The FSP must describe stocking standards that will apply on the FDU's (FPPR s. 16). These standards are itemized in Appendix I.

##### 5.3 Cumulative Effect of Multiple FSP's

Where applicable, the FSP must address the cumulative effect of multiple FSP's in an area FPPR s. 19. There are no other FSP's on the area of this FSP, and therefore this item is not applicable. Nevertheless, the company will continue to communicate its intentions to BC

Timber Sales and other licensees in shared LU's and attempt to proactively address and resolve landscape unit level issues prior to cutting permit application.

## Appendix I Stocking Standards – Arrow TSA

[Arrow Stocking Standards.pdf](#)

## Appendix I

### Stocking Standards – Kootenay Lake TSA

[Kootenay Stocking Standards.pdf](#)

## Appendix II Referral Summary

| Submission of FSP                           | Referral Contacts                                                                                                                                                                                                                                                                                |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advertising                                 | Nelson Daily News<br>Castlegar News<br>Castlegar Citizen<br>Pennywise                                                                                                                                                                                                                            |
| Commercial Recreation Licensees             | Jim Fraps – Baldface Lodge<br>Patrick Maloney – Snowwater Lodge<br>Mike Adams – Whitewater Ski and Winter Resort                                                                                                                                                                                 |
| Commercial Interests (Crown Land)           | BC Gas Utility Ltd.<br>BC Hydro and Power<br>Fortis BC Ltd.                                                                                                                                                                                                                                      |
| First Nations                               | <b>Ktunaxa/Kinbasket Tribal Council</b><br>Lower Kootenay Band<br><b>Okanagan Nation Alliance</b><br>Lower Similkameen Indian Band<br>Okanagan Indian Band<br>Osoyoos Indian Band<br>Penticton Indian Band<br>Upper Similkameen Indian Band<br>Westbank First Nation<br>Spallumcheen Indian Band |
| Watershed Groups <sup>1</sup>               | Blewett Watershed Society<br>Deer Creek Community Watershed<br>Krestova Improvement District<br>Raspberry Robson Improvement District<br>Six Mile Water User Community<br>Whitehead Waterworks District<br>Wolverton Creek Waterworks                                                            |
| Land and Water BC                           | Robin Fawcett – Commercial Recreation                                                                                                                                                                                                                                                            |
| Ministry of Energy and Mines                | David Terry – Regional Geologist                                                                                                                                                                                                                                                                 |
| Ministry of Forests                         | Larry Peitzche – District Manager Arrow Forest District<br>Garry Beaudry – District Manager Kootenay Lake Forest District                                                                                                                                                                        |
| Ministry of Sustainable Resource Management | Ken Gorsline – District Manager – Kootenay District Office                                                                                                                                                                                                                                       |
| Ministry of Transportation                  | Dave Smith – West Kootenay District                                                                                                                                                                                                                                                              |
| Ministry of Water Land and Air Protection   | Mike Knapik – Ecosystem Specialist                                                                                                                                                                                                                                                               |
| Municipal Governments                       | Jim Gustafson – Chief Administrative Officer – City of Castlegar<br>Norm Carruthers – City Manager – City of Nelson<br>Carole McGowan – Deputy Chief Administrative Officer – Regional District of Central Kootenay<br>Rae Sawyer – Chief Administrative Officer – Village of Kaslo              |

The deadline for comments is 60 days from the date of the submission of this plan to the Ministry of Forests (November 22, 2004). Referral notices to affected stakeholders will be mailed on November 22, 2004. Newspaper advertisements will be posted in various newspapers during the week of November 22, 2004 and the week of November 29, 2004.

<sup>1</sup>Note: Given that KLC's operating areas encompass or influence over 1400 individual water licenses, individual license holders will not be provided with direct referrals during the public advertising of this FSP. Instead, water licensees will be notified of proposed development activities as stand level developments are proposed within the larger FDU's. Watershed Groups that have been referred this plan are those groups with which KLC has established and maintained long-standing working relationships with respect to forest management in specific watersheds or operating areas.

### **Submission Report on Public Review and Comment:**

The following text provides context to the requirements of FPPR Section 22(2), whereby a person who submits a FSP must provide the Minister with the following required information:

**A copy of the notice published under section 20:** See Appendix 2

**A copy of each written comment received under section 21:** See Appendix 2

**A description of any changes made to the plan as a result of the comments received under section 21:** Appendix 2 provides copies of all written submissions from the general public and government agencies during the review and comment period of the FSP. While no changes were made to the FSP as a result of public review and comment submissions, substantial changes were made to the FSP as a result of the major amendments to the FRPA Act and Regulations as enacted during the review and comment period of the FSP. Along with the Final FSP document submission for approval, a "tracked changes" version of the document is also provided to the approving agency to highlight the various changes to the original plan submission.

## Appendix III FSP Maps

[overview map.jpg](#)  
[apex fdv.jpg](#)  
[blewett fdv.jpg](#)  
[deer fdv.jpg](#)  
[falls fdv.jpg](#)  
[gander fdv.jpg](#)  
[glade fdv.jpg](#)  
[grohman fdv.jpg](#)  
[merry fdv.jpg](#)  
[rialto fdv.jpg](#)  
[schroeder fdv.jpg](#)  
[ungulate winter range.wmf](#)



## Appendix IV Declared Areas

### Cutblocks:

| FDU | Declaration Date | CP Reference | Gross Area (ha) | Volume m <sup>3</sup> | Comments |
|-----|------------------|--------------|-----------------|-----------------------|----------|
|     |                  |              |                 |                       |          |
|     |                  |              |                 |                       |          |
|     |                  |              |                 |                       |          |
|     |                  |              |                 |                       |          |
|     |                  |              |                 |                       |          |

### Roads:

| FDU | Declaration Date | RP Reference | Length (km) | Status | Comments |
|-----|------------------|--------------|-------------|--------|----------|
|     |                  |              |             |        |          |
|     |                  |              |             |        |          |
|     |                  |              |             |        |          |
|     |                  |              |             |        |          |
|     |                  |              |             |        |          |

**Appendix V**  
**FSP Amendment Log**

| Amendment<br>Number | Amendment<br>Date | Amendment Details |
|---------------------|-------------------|-------------------|
|                     |                   |                   |
|                     |                   |                   |
|                     |                   |                   |
|                     |                   |                   |