

Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	BEST-1		
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°16'07.7" N, 122°49'18.1" W							FIT
Crown Species Composition (species %)			45Fd35Hw20Cw				
Ladder Fuel Species Composition (species %)			50Cw50Hw				
Component/ Sub Component		Levels/ Classes					
Forest Floor and Organic Layer							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
Surface and Ladder Fuel (0.1 – 3.0 meters in height)							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
Stand Structure and Composition (Dominant and Co- Dominate stems)							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 52		
<b>Comments:</b>							
Healthy stand. Dense deciduous understory. Small strata gaps, but high L1 CBH. Ladder fuels not dense. Gully through stand. Low surface fuel loading and continuity. Low hazard stand - no treatment recommended.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Plot # BEST-1

General Location: Coquitlam

Sampled: 6/23/21

Coordinates: 49°16'07.7" N, 122°49'18.1" W

FBP Fuel Type: C-5

Slope (%): 45

Aspect (deg.): 101

Elevation (m): 120

Canopy Closure (%): 40

Average Forest Floor Depth

(cm): 8

**SURFACE FUELS:**

Photo comment:

Theodolite



Date & Time: Wed, Jun 23, 2021, 16:27:54 PDT  
 Position: +049.268853° / -122.821827° (±5.0m)  
 Altitude: 117m (±4.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 094° S85E 147mils True (±25)  
 Elevation Angle: +27.0°  
 Horizon Angle: -01.2°  
 Zoom: 1.0X  
 BEST-1



**LADDER FUELS**

Theodolite

Photo Comment:

East

**CROWN FUELS:**

Theodolite

Photo Comment:



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	EAGLE-1	
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes)				49°19'14.0" N, 122°48'18.6" W		FIT
Crown Species Composition (species %)		75Hw20Cw5Fd				
Ladder Fuel Species Composition (species %)		70Cw30Hw				
Component/ Sub Component	Levels/ Classes					
<b>Forest Floor and Organic Layer</b>						
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment High	WTA Total 63	
<b>Comments:</b>						
Steep slope, south aspect. Adjacent to old gravel road. Bare understory, very little regen or deciduous herbs/moss. Fairly high amount of fine to medium sized N woody debris. CWD that isn't decayed is sparse. Hemlock dominated stand, health issues may arise in the future and surface fuels may increase. C3/C5.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Sampled:

6/22/21

Plot #

EAGLE-1

General Location:

Coquitlam

Coordinates:

49°19'14.0" N, 122°48'18.6" W

FBP Fuel Type:

C-3

Slope (%):

45

Aspect (deg.):

150

Elevation (m):

550

Canopy Closure (%):

85

Average Forest Floor Depth

(cm):

4

SURFACE FUELS:

Date & Time: Tue, Jun 22, 2021, 09:36:11 PDT  
Position: -049.320726° / -122.804203° (±94.8m)  
Altitude: 512m (±25.0m)  
Datum: WGS-84  
Azimuth/Bearing: 200° S20W 3556mils True (±20°)  
Elevation Angle: -69.9°  
Horizon Angle: -18.8°  
Zoom: 1.0X  
EAGLE-1



Photo comment:

Theodolite

Date & Time: Tue, Jun 22, 2021, 09:36:49 PDT  
Position: -049.320719° / -122.804151° (±10.0m)  
Altitude: 589m (±12.0m)  
Datum: WGS-84  
Azimuth/Bearing: 288° S88W 4764mils True (±20°)  
Elevation Angle: +35.1°  
Horizon Angle: +01.3°  
Zoom: 1.0X  
EAGLE-1



LADDER FUELS

Theodolite

Photo Comment:

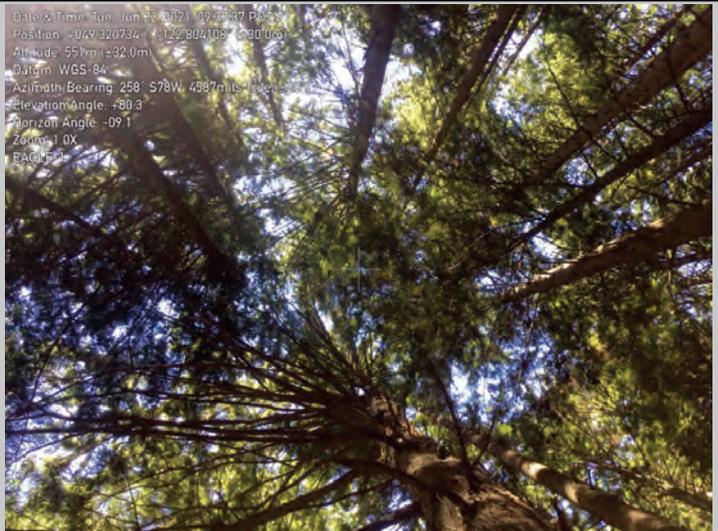
West

CROWN FUELS:

Photo Comment:

Theodolite

Date & Time: Tue, Jun 22, 2021, 09:37:37 PDT  
Position: -049.320734° / -122.804108° (±80.0m)  
Altitude: 551m (±32.0m)  
Datum: WGS-84  
Azimuth/Bearing: 258° S78W 4587mils True (±20°)  
Elevation Angle: +80.3°  
Horizon Angle: -09.1°  
Zoom: 1.0X  
EAGLE-1



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	EAGLE-2	
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°19'05.0" N, 122°48'31.9" W						
Crown Species Composition (species %)			80Hw20Cw			
Ladder Fuel Species Composition (species %)			60Hw40Cw			
Component/ Sub Component	Levels/ Classes					
<b>Forest Floor and Organic Layer</b>						
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2  5  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment High		WTA Total 64
<b>Comments:</b>						
Steep slope, south aspect. Sparse understory. Some CWD from recent dead Hw. Dwarf mistletoe present in stand. Uniformly aged stand, high potential for surface fuels to increase as Hw may have pest issues in future. High CBH and crown closure. Adjacent to forest road. More dense regen and ladder fuels along road side. C3/C5.						
** photos saved as “EAGLE-1” by accident						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/22/21

Plot #

EAGLE-2

General Location:

Coquitlam

Coordinates:

49°19'05.0" N, 122°48'31.9" W

FBP Fuel Type:

C-3

Slope (%):

55

Aspect (deg.):

152

Elevation (m):

500

Canopy Closure (%):

80

Average Forest Floor Depth

(cm):

4

**SURFACE FUELS:**

Photo comment:

Theodolite



Date & Time: Tue Jun 22, 2021 10:02:38 PDT  
 Position: 49°31'17.5" N, -122°50'07.34" W  
 Altitude: 493m (±12.0m)  
 Datum: WGS-84  
 Azimuth Bearing: 179° S01E 3182mils True (±20°)  
 Elevation Angle: +18.7°  
 Horizon Angle: +00.2°  
 Zoom: 1.0X  
 EAGLE-1



Theodolite

**LADDER FUELS**

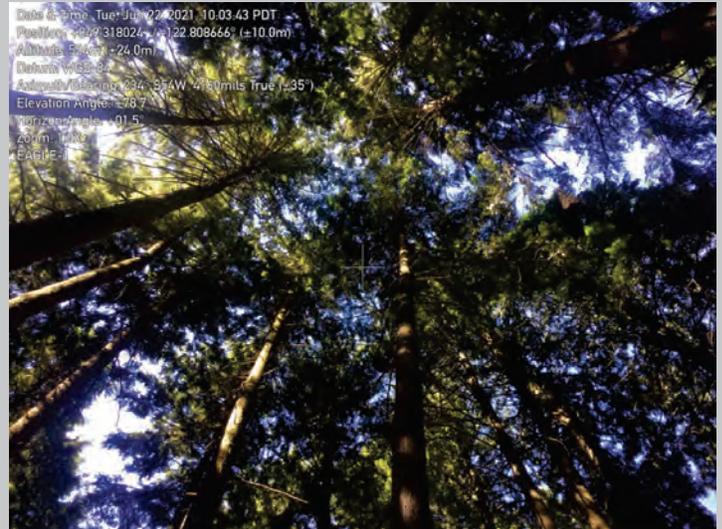
Photo Comment:

South

**CROWN FUELS:**

Photo Comment:

Theodolite



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	EAGLE-3		
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'52.8" N, 122°48'36.4" W							FIT
Crown Species Composition (species %)			65Hw35Cw(Fd)				
Ladder Fuel Species Composition (species %)			60Cw40Hw				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15	
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15	
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10	
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10	
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2  5  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15	
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10	
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment High	WTA Total 62		
<b>Comments:</b>							
Similar to EAGLE 1/2. Slightly less steep and lower elevation. Slightly more deciduous understory, still sparse, high CC. Adjacent to station. Some understory conifer regen. Fairly high amount of fine woody debris, moderate amount of coarse. Thick regen along trail edge adjacent to station. C3/C5 stand. Potential for treatment: TFB, PRN, SFR.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/22/21

Plot #

EAGLE-3

General Location:

Coquitlam

Coordinates:

49°18'52.8" N, 122°48'36.4" W

FBP Fuel Type:

C-3

Slope (%):

40

Aspect (deg.):

145

Elevation (m):

395

Canopy Closure (%):

80

Average Forest Floor Depth

(cm):

3-4

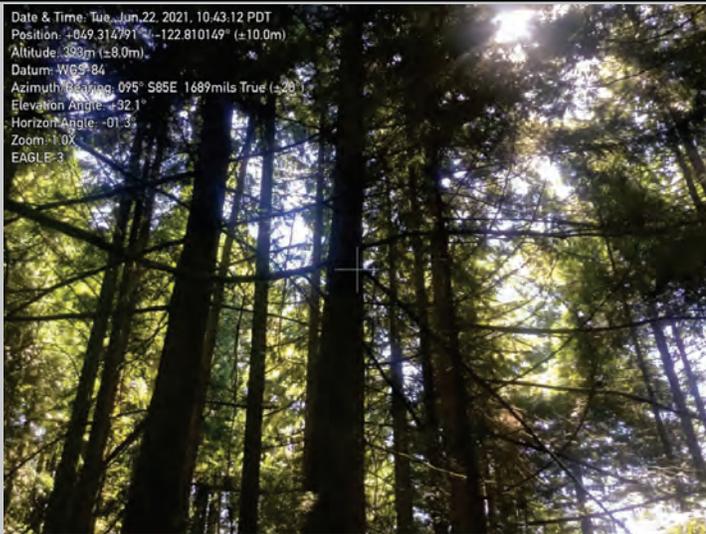
**SURFACE FUELS:**



Photo comment:

Theodolite

Date & Time: Tue, Jun 22, 2021, 10:43:12 PDT  
 Position: +049.314791° / -122.810149° (±10.0m)  
 Altitude: 393m (±8.0m)  
 Datum: WGS-84  
 Azimuth Bearing: 095° S85E 1689mils True (±20°)  
 Elevation Angle: +32.1°  
 Horizon Angle: -01.3°  
 Zoom: 1.0X  
 EAGLE-3



**LADDER FUELS**

Theodolite

Photo Comment:

East

**CROWN FUELS:**

Photo Comment:

Theodolite

Date & Time: Tue, Jun 22, 2021, 10:43:32 PDT  
 Position: +049.314783° / -122.810135° (±10.0m)  
 Altitude: 396m (±8.0m)  
 Datum: WGS-84  
 Azimuth Bearing: 149° S31E 2649mils True (±20°)  
 Elevation Angle: +68.0°  
 Horizon Angle: -05.3°  
 Zoom: 1.0X  
 EAGLE-3



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	EAGLE-4		
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'14.6" N, 122°48'56.6" W							FIT
Crown Species Composition (species %)			70Hw20Cw10Rd				
Ladder Fuel Species Composition (species %)			50Cw50Hw				
Component/ Sub Component		Levels/ Classes					
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15	
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15	
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10	
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10	
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2  5  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15	
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10	
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 58		
<b>Comments:</b>							
Surface fuels moderate. More prominent on edges due to blowdown. Small gaps between strata layers. Occasional Rd mixed in stand. Stand is most dense around edges. Stand becomes more deciduous to the south. Potential for treatment - thinning, surface fuel removal, pruning.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Sampled:

6/23/21

Plot #

EAGLE-4

General Location:

Coquitlam

Coordinates:

49°18'14.6" N, 122°48'56.6" W

FBP Fuel Type:

C-3

Slope (%):

30

Aspect (deg.):

85

Elevation (m):

275

Canopy Closure (%):

75

Average Forest Floor Depth

(cm):

4

SURFACE FUELS:



Photo comment:

Theodolite

Date & Time: Wed Jun 23, 2021, 08:22:15 PDT  
 Position: +049.303752 / -122.815685 (+5.0m)  
 Altitude: 247m (+2.0m)  
 Datum: WGS 84  
 Azimuth/Bearing: 358° N02W 63.4mils True (±20°)  
 Elevation Angle: -33.7°  
 Horizon Angle: 0.0°  
 Zoom: 1.0X  
 EAGLE-4



LADDER FUELS

Theodolite

Photo Comment:

North

CROWN FUELS:

Theodolite

Photo Comment:

Date & Time: Wed Jun 23, 2021, 08:21:02 PDT  
 Position: +049.303752 / -122.816754 (+5.0m)  
 Altitude: 294m (+2.0m)  
 Datum: WGS 84  
 Azimuth/Bearing: 315° N06W 60.0mils True (±20°)  
 Elevation Angle: 77.6°  
 Horizon Angle: 11.4°  
 Zoom: 1.0X  
 EAGLE-4



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	HAZEL-1		
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'08.6" N, 122°45'38.1" W							FIT
Crown Species Composition (species %)			60Cw20Hw20Fd				
Ladder Fuel Species Composition (species %)			70Hw30Cw				
Component/ Sub Component		Levels/ Classes					
Forest Floor and Organic Layer							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
Surface and Ladder Fuel (0.1 – 3.0 meters in height)							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
Stand Structure and Composition (Dominant and Co- Dominate stems)							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Low	WTA Total 41		
<b>Comments:</b>							
Healthy C5 stand. Low hazard. Low surface fuel loading and continuity. Lush deciduous understory. Large L1 trees with high CBH. Ladder fuels sparse. No treatment recommendations needed.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Sampled:

6/23/21

Plot #

HAZEL-1

General Location:

Coquitlam

Coordinates:

49°18'08.6" N, 122°45'38.1" W

FBP Fuel Type:

C-5

Slope (%):

7

Aspect (deg.):

160

Elevation (m):

155

Canopy Closure (%):

55

Average Forest Floor Depth

(cm):

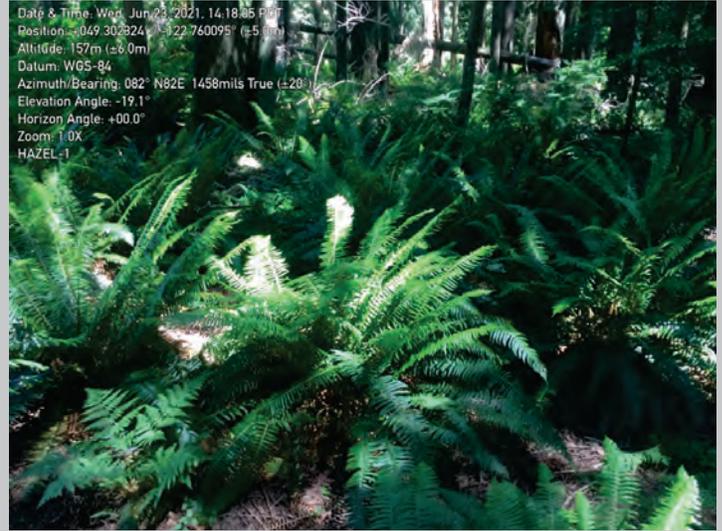
8

SURFACE FUELS:

Photo comment:

[Empty text box for photo comment]

Theodolite



Date & Time: Wed, Jun 23, 2021, 14:18:05 PDT  
Position: +049.302324° / -122.760095° (±5.0m)  
Altitude: 157m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 082° N82E 1458mils True (±20°)  
Elevation Angle: -19.1°  
Horizon Angle: +00.0°  
Zoom: 1.0X  
HAZEL-1



Date & Time: Wed, Jun 23, 2021, 14:17:48 PDT  
Position: +049.302335° / -122.760111° (±5.0m)  
Altitude: 157m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 082° N82E 1453mils True (±20°)  
Elevation Angle: +28.7°  
Horizon Angle: -01.0°  
Zoom: 1.0X  
HAZEL-1

Theodolite

LADDER FUELS

Photo Comment:

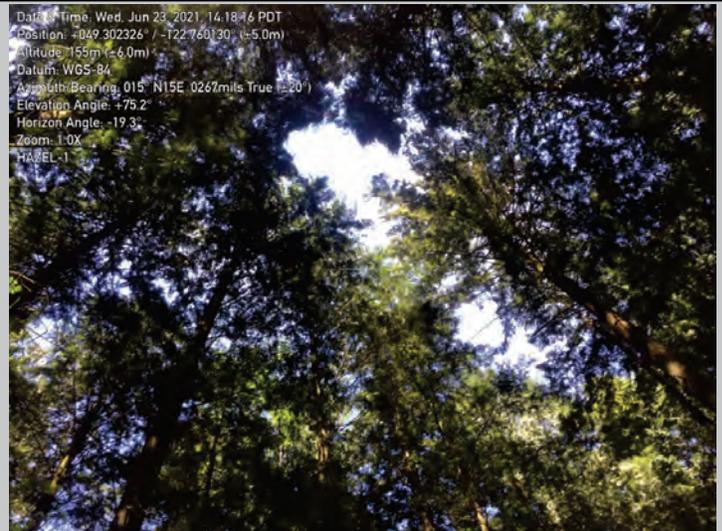
East

CROWN FUELS:

Photo Comment:

[Empty text box for photo comment]

Theodolite



Date & Time: Wed, Jun 23, 2021, 14:18:46 PDT  
Position: +049.302326° / -122.760130° (±5.0m)  
Altitude: 155m (±6.0m)  
Datum: WGS-84  
Azimuth/Bearing: 015° N15E 0267mils True (±20°)  
Elevation Angle: +75.2°  
Horizon Angle: -19.3°  
Zoom: 1.0X  
HAZEL-1

Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	HOYE-1	
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°19'07.5" N, 122°47'34.0" W						
Crown Species Composition (species %)			85Hw10Cw5Fd			
Ladder Fuel Species Composition (species %)			80Hw20Cw			
Component/ Sub Component	Levels/ Classes					
<b>Forest Floor and Organic Layer</b>						
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2 5 7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 50	
<b>Comments:</b>						
Hw dominated, lots of deciduous understory. Adjacent to private properties. Sparse ladder fuels with large strata gap. Hw regen patchy but dense in some areas, especially along trail edge and edge of houses. Windfirm trees along park edge?						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/22/21

Plot #

HOYE-1

General Location:

Coquitlam

Coordinates:

49°19'07.5" N, 122°47'34.0" W

FBP Fuel Type:

C-5

Slope (%):

170

Aspect (deg.):

18

Elevation (m):

340

Canopy Closure (%):

60

Average Forest Floor Depth

(cm):

4

**SURFACE FUELS:**

Photo comment:

Theodolite



Date & Time: Tue, Jun 22, 2021, 12:05:28 PDT  
 Position: +049.318830° / -122.792813° (±5.0m)  
 Altitude: 340m (±4.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 272° N88W 0338mils True (±20.1)  
 Elevation Angle: +46.8  
 Horizon Angle: +01.5  
 Zoom: 1.0X  
 HOYE-1



Theodolite

**LADDER FUELS**

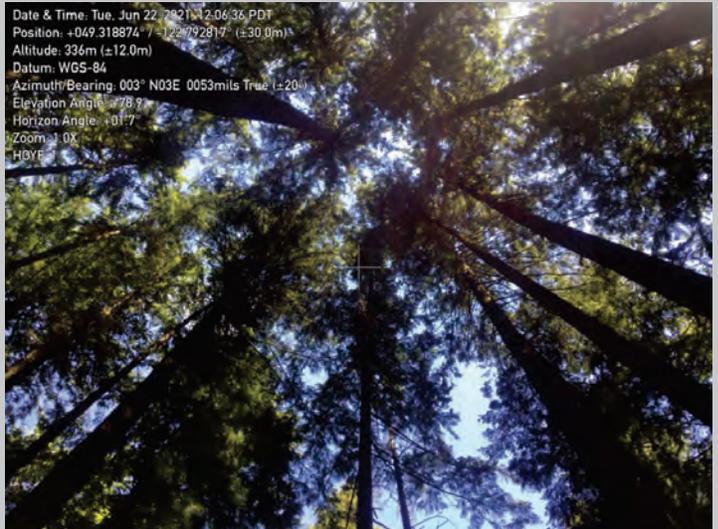
Photo Comment:

West

**CROWN FUELS:**

Photo Comment:

Theodolite



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	HYDRO-1		
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'50.5" N, 122°48'02.8" W							FIT
Crown Species Composition (species %)			70Hw30Cw				
Ladder Fuel Species Composition (species %)			50Hw50Cw				
Component/ Sub Component		Levels/ Classes					
Forest Floor and Organic Layer							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
Surface and Ladder Fuel (0.1 – 3.0 meters in height)							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
Stand Structure and Composition (Dominant and Co- Dominate stems)							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25%  2 50%  5 75%  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment High	WTA Total 61		
<b>Comments:</b>							
Thin forested strip in between hydro lines and golf course. Could treat to make continuous fuel break. Trail runs through polygon. Mostly C3 with small mixed fuel patches. Potential for treatment, but due to it's size and location (between two fuel breaks) it's only moderate priority. Thinning of L3/L4 ladder fuels and SFR recommended if treated.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

#### SITE INFORMATION

Date: 6/23/21 Plot #: HYDRO-1 General Location: Coquitlam

Sampled: 6/23/21

Coordinates: 49°18'50.5" N, 122°48'02.8" W

FBP Fuel Type: C-3

Slope (%): 8

Aspect (deg.): 170

Elevation (m): 360

Canopy Closure (%): 80

Average Forest Floor Depth (cm): 7

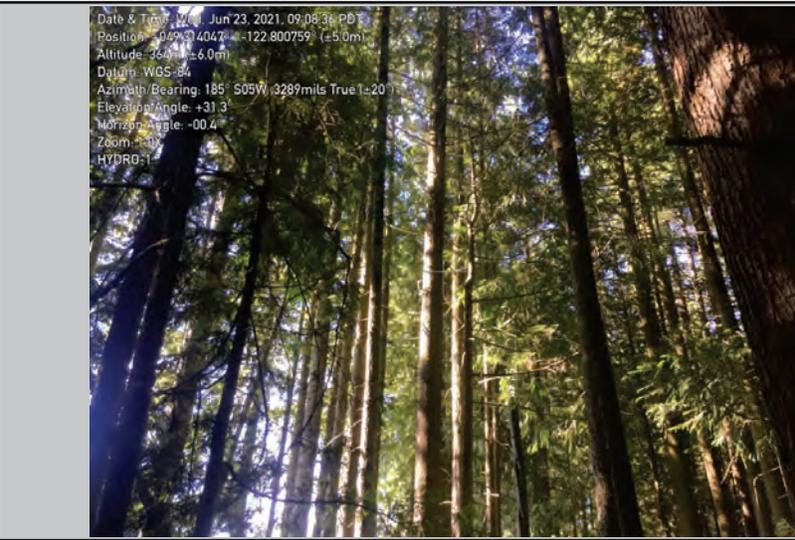
#### SURFACE FUELS:



Photo comment:

Empty text box for photo comment.

Theodolite



#### LADDER FUELS

Theodolite

Photo Comment:

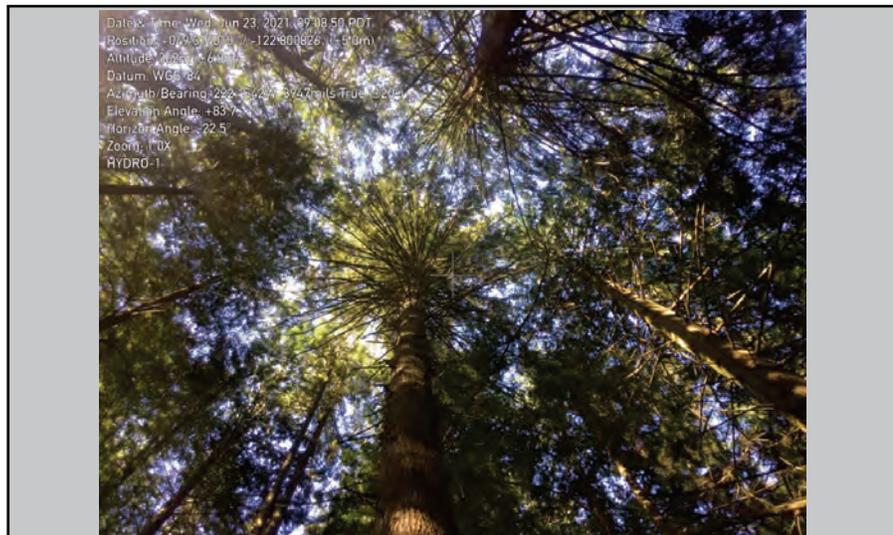
South

#### CROWN FUELS:

Theodolite

Photo Comment:

Empty text box for photo comment.



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)					Plot #	HYDRO-2
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'58.6" N, 122°48'06.1" W						
Crown Species Composition (species %)			90Hw10Cw			
Ladder Fuel Species Composition (species %)			80Hw20Cw			
Component/ Sub Component		Levels/ Classes				
Forest Floor and Organic Layer						
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2
Surface and Ladder Fuel (0.1 – 3.0 meters in height)						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10
Stand Structure and Composition (Dominant and Co- Dominate stems)						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10
Ecoprovince Coast and Mountains (0/44/60/73)					Threat Assessment High	WTA Total 65
<b>Comments:</b>						
Stand adjacent to hydro lines and grass fields. Fairly high amount of surface fuels of all sizes. Occasional deciduous trees. Conifer understory regen/ladder fuels dense in some spots. Low strata gaps. TFB, SFR, and PRN recommended to try and extend preexisting fuel break from fields/hydro lines.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

#### SITE INFORMATION

Sampled:

6/23/21

Plot #

HYDRO-2

General Location:

Coquitlam

Coordinates:

49°18'58.6" N, 122°48'06.1" W

FBP Fuel Type:

C-3

Slope (%):

10

Aspect (deg.):

200

Elevation (m):

380

Canopy Closure (%):

70

Average Forest Floor Depth

(cm):

7

#### SURFACE FUELS:

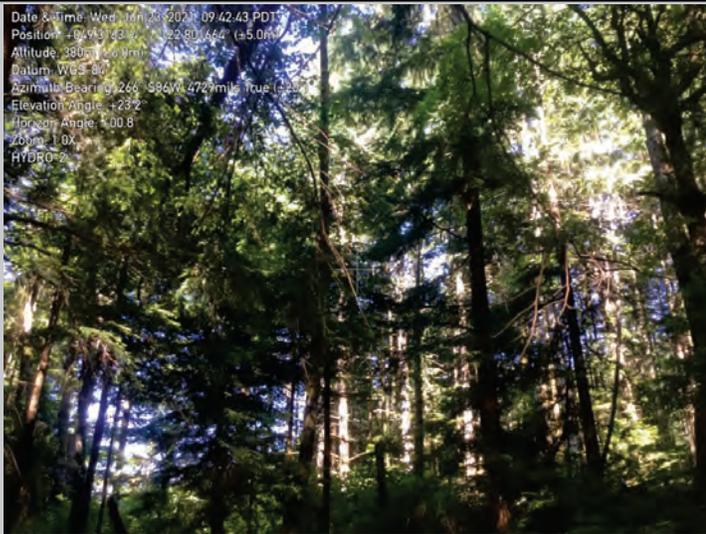
Date & Time: Wed, Jun 23, 2021, 09:42:47 PDT  
 Position: +049.316314, -122.801664 (±5.0m)  
 Altitude: 381m (±8.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 241 S61W 4284mils True (±20°)  
 Elevation Angle: -71.9°  
 Horizon Angle: +03.0°  
 Zoom: 1.0X  
 HYDRO-2



Photo comment:

Theodolite

Date & Time: Wed, Jun 23, 2021, 09:42:43 PDT  
 Position: +049.316314, -122.801664 (±5.0m)  
 Altitude: 380m (±8.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 266 S86W 4727mils True (±20°)  
 Elevation Angle: +23.2°  
 Horizon Angle: +00.8°  
 Zoom: 1.0X  
 HYDRO-2



#### LADDER FUELS

Theodolite

Photo Comment:

West

#### CROWN FUELS:

Theodolite

Photo Comment:

Date & Time: Wed, Jun 23, 2021, 09:42:52 PDT  
 Position: +049.316314, -122.801664 (±5.0m)  
 Altitude: 380m (±8.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 243 S63W 4320mils True (±20°)  
 Elevation Angle: +77.4°  
 Horizon Angle: +08.3°  
 Zoom: 1.0X  
 HYDRO-2



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	HYDRO-3		
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'44.8" N, 122°48'21.8" W							FIT
Crown Species Composition (species %)			100Hw				
Ladder Fuel Species Composition (species %)			90Hw10Cw				
Component/ Sub Component		Levels/ Classes					
Forest Floor and Organic Layer							
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2	
Surface and Ladder Fuel (0.1 – 3.0 meters in height)							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15	
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15	
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10	
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10	
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10	
Stand Structure and Composition (Dominant and Co- Dominate stems)							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2  5  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15	
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10	
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 57		
<b>Comments:</b>							
Hw dominated stand. Herb layer almost absent. Ladder fuels and conifer regen sparse. Mostly L1/L2 trees. Surface fuels moderate all sizes. High CBH and large strata gaps. If treated, SFR and TFB recommended.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

#### SITE INFORMATION

Sampled:

6/23/21

Plot #

HYDRO-3

General Location:

Coquitlam

Coordinates:

49°18'44.8" N, 122°48'21.8" W

FBP Fuel Type:

C-3

Slope (%):

17

Aspect (deg.):

270

Elevation (m):

345

Canopy Closure (%):

80

Average Forest Floor Depth

(cm):

8

#### SURFACE FUELS:

Photo comment:

Theodolite



#### LADDER FUELS

Theodolite

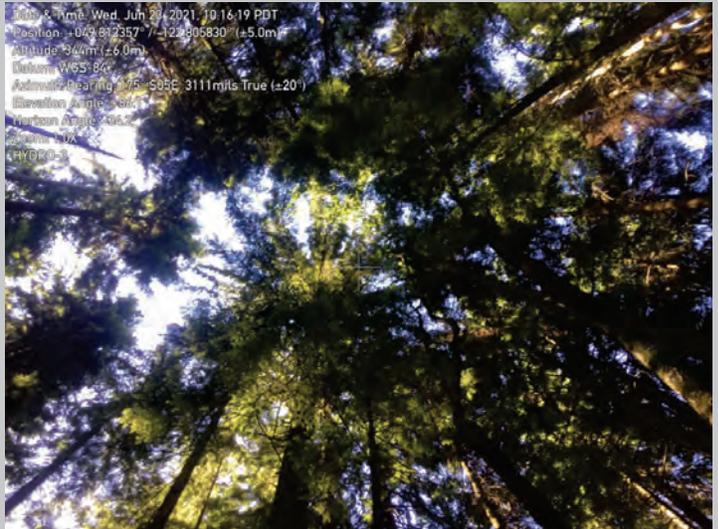
Photo Comment:

West

#### CROWN FUELS:

Theodolite

Photo Comment:



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)					Plot #	MINNE-1
Location	Coquitlam	Date	6/21/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'01.1" N, 122°42'13.3" W						
Crown Species Composition (species %)			60Fd25Hw15Cw			
Ladder Fuel Species Composition (species %)			70Hw30Cw			
Component/ Sub Component	Levels/ Classes					
Forest Floor and Organic Layer						
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2
Surface and Ladder Fuel (0.1 – 3.0 meters in height)						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10
Stand Structure and Composition (Dominant and Co-Dominate stems)						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25%  50%  75% 	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10
Ecoprovince Coast and Mountains (0/44/60/73)					Threat Assessment Moderate	WTA Total 53
<b>Comments:</b>						
Steep slope. Dense deciduous understory. Fair amount of canopy gaps. Sparse conifer regen. Low amount of surface fuels. North facing aspect mid slope. South facing stands not as healthy. Overall, low risk C5. Treatment not needed.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION

Sampled:

6/21/21

Plot #

MINNE-1

General Location:

Coquitlam

Coordinates:

49°18'01.1" N, 122°42'13.3" W

FBP Fuel Type:

C-5

Slope (%):

50

Aspect (deg.):

358

Elevation (m):

0

Canopy Closure (%):

45

Average Forest Floor Depth

(cm):

3

SURFACE FUELS:

Photo comment:

Theodolite

Date & Time: Mon, Jun 21, 2021, 10:55:38 PDT  
Position: +049.300305° / -122.703681° (±10.0m)  
Altitude: 0m (±19.0m)  
Datum: WGS-84  
Azimuth/Bearing: 004° N04E 0071mils True (±20°)  
Elevation Angle: -57.6°  
Horizon Angle: +00.8°  
Zoom: 1.0X  
MINNE-1



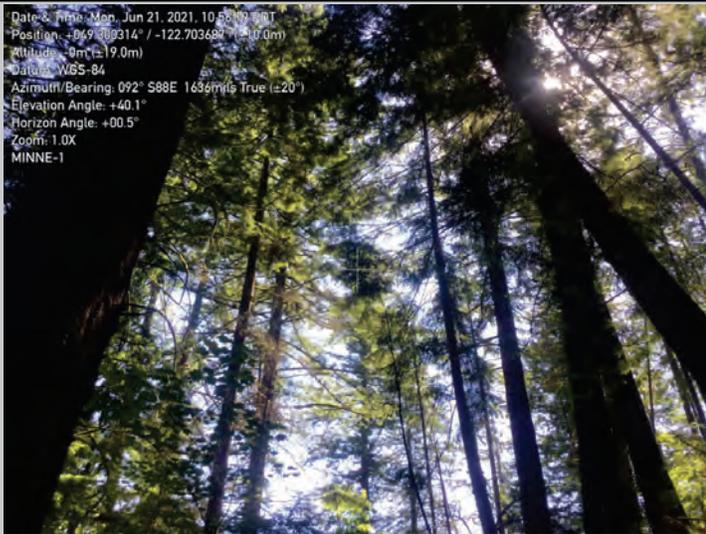
Date & Time: Mon, Jun 21, 2021, 10:56:00 PDT  
Position: +049.300314° / -122.703681° (±10.0m)  
Altitude: 0m (±19.0m)  
Datum: WGS-84  
Azimuth/Bearing: 092° S88E 1635mils True (±20°)  
Elevation Angle: +40.1°  
Horizon Angle: +00.5°  
Zoom: 1.0X  
MINNE-1

Theodolite

LADDER FUELS

Photo Comment:

East



CROWN FUELS:

Theodolite

Photo Comment:

Date & Time: Mon, Jun 21, 2021, 10:56:00 PDT  
Position: +049.300305° / -122.703681° (±10.0m)  
Altitude: 0m (±19.0m)  
Datum: WGS-84  
Azimuth/Bearing: 195° S15W 3467mils True (±20°)  
Elevation Angle: +76.9°  
Horizon Angle: +05.7°  
Zoom: 1.0X  
MINNE-1



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	MINNE-2		
Location	Coquitlam	Date	6/21/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°17'49.6" N, 122°42'05.1" W							FIT
Crown Species Composition (species %)			60Cw20HwFd				
Ladder Fuel Species Composition (species %)			80Cw20Hw				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25%  2 50%  5 75%  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 58		
<b>Comments:</b>							
Lots of standing dead L2/L3. Surface fuels low, but patchy areas with lots of CWD. Dense deciduous understory. Large canopy gaps. Areas with dense L3 regen. Overall not a high fire risk, but once the standing dead is on the ground it should be reassessed. May become high as surface fuel loading increases. Potentially treatable area.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

#### SITE INFORMATION

Date

Plot #

MINNE-2

General Location:

Coquitlam

Sampled:

6/21/21

Coordinates:

49°17'49.6" N, 122°42'05.1" W

FBP Fuel Type:

C-5

Slope (%):

23

Aspect (deg.):

82

Elevation (m):

35

Canopy Closure (%):

30

Average Forest Floor Depth

(cm):

4

#### SURFACE FUELS:

Photo comment:

Theodolite



#### LADDER FUELS

Theodolite

Photo Comment:

North



#### CROWN FUELS:

Theodolite

Photo Comment:



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	MUNDY-1	
Location	Coquitlam	Date	6/25/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes)				49°15'39.8" N, 122°49'55.7" W		FIT
Crown Species Composition (species %)		50Hw30Fd20Cw				
Ladder Fuel Species Composition (species %)		75Hw25Cw				
Component/ Sub Component	Levels/ Classes					
<b>Forest Floor and Organic Layer</b>						
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2  5  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 53	
<b>Comments:</b>						
L1 trees mostly green and healthy. Some Hw ladder fuels have mistletoe and are dying. Surface fuels patchy, most dense along trail edges and where danger trees have been removed. Ladder fuels patchy, but overall quite sparse. Moderate fuel hazard currently but in the future this will increase due to die off especially of Hw leading to increased fuel loading. SFR along trail edges and thinning ladder fuels would be main treatments.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Sampled:

6/25/21

Plot #

MUNDY-1

General Location:

Coquitlam

Coordinates:

49°15'39.8" N, 122°49'55.7" W

FBP Fuel Type:

C-5

Slope (%):

7

Aspect (deg.):

Flat

Elevation (m):

170

Canopy Closure (%):

55

Average Forest Floor Depth

(cm):

6

SURFACE FUELS:

Photo comment:

Theodolite



Date & Time: Fri, Jun 25, 2021, 14:41:59 PDT  
 Position: +049.261151° / -122.831916° (±5.0m)  
 Altitude: 171m (±4.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 286° S88W 5744mils (±20°)  
 Elevation Angle: +39.1°  
 Horizon Angle: 01.1°  
 Zoom: 1.0X  
 MUNDY-1

Theodolite

LADDER FUELS

Photo Comment:

West



CROWN FUELS:

Theodolite

Photo Comment:



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #		
Location		Coquitlam	Date	6/25/21	Assessor/ Professional Designation	M. Catt
Coordinates (Lat/Long – Degrees/Decimal minutes)						FIT
Crown Species Composition (species %)			50HwCw20Fd(Mb)			
Ladder Fuel Species Composition (species %)			75Hw25Cw			
Component/ Sub Component		Levels/ Classes				
Forest Floor and Organic Layer						
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2
Surface and Ladder Fuel (0.1 – 3.0 meters in height)						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10
Stand Structure and Composition (Dominant and Co- Dominate stems)						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10
Ecoprovince Coast and Mountains (0/44/60/73)					Threat Assessment Low	WTA Total 42
<b>Comments:</b>						
Dense deciduous understory. Ladder fuels sparse. Surface fuel loading low except patchy along trail edges. Canopy quite open. Low hazard fuel rating.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Plot # MUNDY-2

General Location: Coquitlam

Sampled: 6/25/21

Coordinates: 49°15'17.2" N, 122°49'54.7" W

FBP Fuel Type: C-5

Slope (%): 9

Aspect (deg.): 108

Elevation (m): 155

Canopy Closure (%): 45

Average Forest Floor Depth

(cm): 8

SURFACE FUELS:

Photo comment:

Theodolite



Date & Time: Fri, Jun 25, 2021, 15:10:32 PDT  
 Position: 49°15'17.2"N, 122°49'54.7"W (+5.0m)  
 Altitude: 155m (+4.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 089° N89E (389mils True (+20°))  
 Elevation Angle: -24.2  
 Horizon Angle: -01.8  
 Zoom: 1.0X  
 MUNDY-2

LADDER FUELS

Theodolite

Photo Comment:

East



CROWN FUELS:

Theodolite

Photo Comment:



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	MUNDY-3	
Location	Coquitlam	Date	6/25/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°15'21.9" N, 122°49'39.6" W						
Crown Species Composition (species %)			40Cd30Hw20Cw10Rd			
Ladder Fuel Species Composition (species %)			60Hw30Cw10Tx			
Component/ Sub Component	Levels/ Classes					
<b>Forest Floor and Organic Layer</b>						
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 	Lichen, Conifer Shrubs 	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 	Pinegrass 	Sagebrush, Bunchgrass, Juniper Scotch broom 
3	Dead and Down material Continuity (<7cm)	Absent 	Scattered <10 coverage 	10 -25% coverage 	26-50% coverage 	>50% Coverage 
4	Ladder fuel composition	Deciduous 	Mixwood 	Other conifer 	Elevated dead fuel 	Spruce/ Fir/ Pine 
5	Ladder fuel horizontal continuity	Absent 	Sparse <10% coverage 	Scattered 10 – 39% coverage 	Patchy 40-60% coverage 	Uniform >60% coverage 
6	Stem/ha (understory) <sup>3</sup>	<900 	901-1 500 	1 501-2 500 	2 501-4 000 	>4 000 
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 	Mixwood (% Conifer) 25%  50%  75% 	Conifer with high CBH (>10m) 	Conifer with moderate CBH (6-9M) 	Conifer with low CBH (<5m) 
8	Crown Closure	< 20% 	20 -40% 	41-60% 	61-80% 	>80% 
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 	6-9 	3-6 	<3 
10	Stems/ha live/ grn dom & codom (overstory)	<400 	401-600 	601-900 	901-1 200 	>1 200 
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 	Standing Dead/ Partial down 21-50% 	Standing Dead/ Partial down 51- 75% 	Standing Dead/ Partial down >75% 
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 39	
<b>Comments:</b>						
Deciduous understory dense. Ladder fuels sparse. Surface fuels low, moderate along some trail edges. Overall low fuel hazard. Monitor in future.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION

Date: 6/25/21 Plot #: MUNDY-3 General Location: Coquitlam

Sampled: 6/25/21

Coordinates: 49°15'21.9" N, 122°49'39.6" W

FBP Fuel Type: C-5

Slope (%): 11

Aspect (deg.): 85

Elevation (m): 160

Canopy Closure (%): 50

Average Forest Floor Depth (cm): 6

SURFACE FUELS:



Photo comment:

Empty text box for photo comment.

Theodolite

LADDER FUELS

Theodolite

Photo Comment:

South



CROWN FUELS:

Theodolite

Photo Comment:

Empty text box for photo comment.



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	PINE-1	
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes)				49°18'38.4" N, 122°44'29.3" W		FIT
Crown Species Composition (species %)		40Fd30Cw30Hw				
Ladder Fuel Species Composition (species %)		80Hw20Cw				
Component/ Sub Component	Levels/ Classes					
<b>Forest Floor and Organic Layer</b>						
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 48	
<b>Comments:</b>						
C5 stand. Mountain bike/hiking trails throughout area. Lots of deciduous herbs in understory. Some canopy gaps. High CBH on dominant trees. Hw understory not very dense. Low surface fuels. Low fuel hazard in stand. Healthy stand, no need for treatment currently, but monitor in future as location is well suited for a fuel break.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

#### SITE INFORMATION

Date:  Plot #:  General Location:

Sampled:

Coordinates:

FBP Fuel Type:

Slope (%):

Aspect (deg.):

Elevation (m):

Canopy Closure (%):

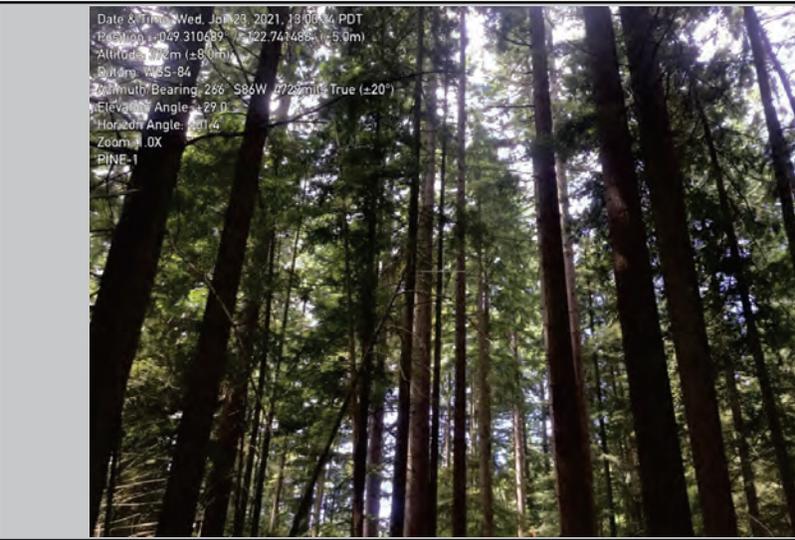
Average Forest Floor Depth (cm):

#### SURFACE FUELS:



Photo comment:

Theodolite



#### LADDER FUELS

Theodolite

Photo Comment:

West

#### CROWN FUELS:

Photo Comment:

Theodolite



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	PINE-2		
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'50.9" N, 122°44'54.7" W							FIT
Crown Species Composition (species %)			60Cw30Hw10Fd				
Ladder Fuel Species Composition (species %)			50Cw40Hw10Rd				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 47		
<b>Comments:</b>							
Healthy stand, lush deciduous understory. Sparse ladder fuels with fairly large strata gaps. Low amount of surface fuels,. Similar stand type to PINE-1. Refer to PINE-1 for treatment recommendations.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/23/21

Plot #

PINE-2

General Location:

Coquitlam

Coordinates:

49°18'50.9" N, 122°44'54.7" W

FBP Fuel Type:

C-5

Slope (%):

17

Aspect (deg.):

232

Elevation (m):

330

Canopy Closure (%):

65

Average Forest Floor Depth

(cm):

8

**SURFACE FUELS:**

Photo comment:

Theodolite



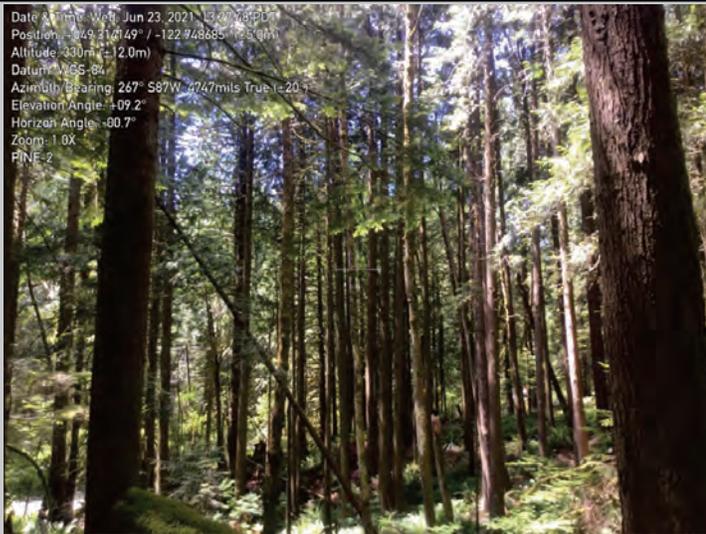
Date & Time: Wed Jun 23, 2021, 13:47:28 PDT  
 Position: -049.314149° / -122.748685° (±5.0m)  
 Altitude: 330m (±12.0m)  
 Datum: WGS-84  
 Azimuth Bearing: 267° S87W 47.47mils True (±20)  
 Elevation Angle: +09.2°  
 Horizon Angle: -60.7°  
 Zoom: 1.0X  
 PINE-2

Theodolite

**LADDER FUELS**

Photo Comment:

West



**CROWN FUELS:**

Theodolite

Photo Comment:



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	PINE-3	
Location	Coquitlam	Date	6/25/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°19'01.2" N, 122°44'40.1" W						
Crown Species Composition (species %)			40Cw30Fd30Hw			
Ladder Fuel Species Composition (species %)			70Hw30Cw			
Component/ Sub Component	Levels/ Classes					
<b>Forest Floor and Organic Layer</b>						
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 47	
<b>Comments:</b>						
Plot adjacent to trail. Healthy stand. Ladder fuel continuity low. Low surface fuels. High CBH. Higher density of surface fuels and ladder fuels along trail edge. Low fuel hazard, but continue to monitor as this area has potential for a good fuel break.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Sampled:

6/25/21

Plot #

PINE-3

General Location:

Coquitlam

Coordinates:

49°19'01.2" N, 122°44'40.1" W

FBP Fuel Type:

C-5

Slope (%):

30

Aspect (deg.):

85

Elevation (m):

409

Canopy Closure (%):

65

Average Forest Floor Depth

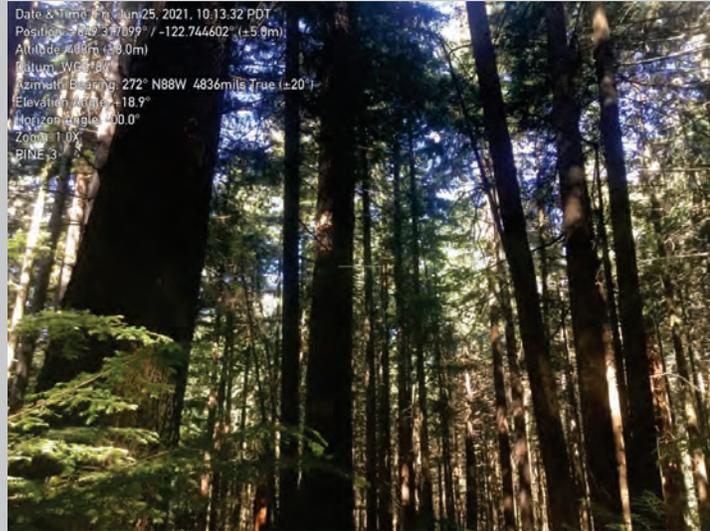
(cm):

4-5

SURFACE FUELS:

Photo comment:

Theodolite



LADDER FUELS

Theodolite

Photo Comment:

West

CROWN FUELS:

Photo Comment:

Theodolite



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	PINE-4	
Location	Coquitlam	Date	6/25/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°19'30.5" N, 122°45'40.5" W						
Crown Species Composition (species %)			40Fd40Hw20Cw			
Ladder Fuel Species Composition (species %)			80Hw20Cw			
Component/ Sub Component		Levels/ Classes				
Forest Floor and Organic Layer						
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2
Surface and Ladder Fuel (0.1 – 3.0 meters in height)						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10
Stand Structure and Composition (Dominant and Co- Dominate stems)						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate		WTA Total 45
<b>Comments:</b>						
High density deciduous understory. Ladder fuels sparse. Healthy stand. High CBH on L1 trees. Low fuel hazard stand. See PINE-3 for recommendations.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/25/21

Plot #

PINE-4

General Location:

Coquitlam

Coordinates:

49°19'30.5" N, 122°45'40.5" W

FBP Fuel Type:

C-5

Slope (%):

40

Aspect (deg.):

300

Elevation (m):

270

Canopy Closure (%):

65

Average Forest Floor Depth

(cm):

5

**SURFACE FUELS:**

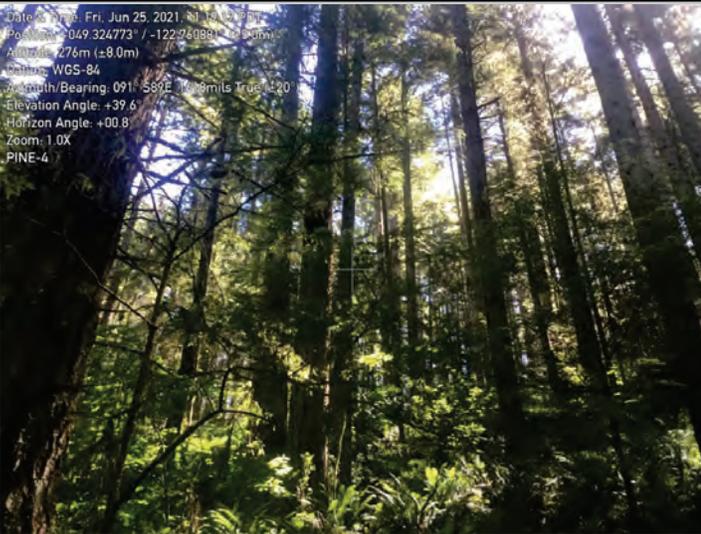
Date & Time: Fri, Jun 25, 2021, 11:19:44 PDT  
Position: +049.324723 / -122.760917 (±5.0m)  
Altitude: 269m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 288 N72W 5420mts True (±20°)  
Elevation Angle: +00.6  
Horizon Angle: +00.8  
Zoom: 1.0X  
PINE-4



Photo comment:

Theodolite

Date & Time: Fri, Jun 25, 2021, 11:19:44 PDT  
Position: +049.324773 / -122.760917 (±5.0m)  
Altitude: 276m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 091 S89E 1229mts True (±20°)  
Elevation Angle: +39.6  
Horizon Angle: +00.8  
Zoom: 1.0X  
PINE-4



**LADDER FUELS**

Theodolite

Photo Comment:

East

**CROWN FUELS:**

Theodolite

Photo Comment:

Date & Time: Fri, Jun 25, 2021, 11:19:41 PDT  
Position: +049.324723 / -122.760917 (±5.0m)  
Altitude: 269m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 278 N82W 4942mts True (±20°)  
Elevation Angle: +74.2  
Horizon Angle: +09.3  
Zoom: 1.0X  
PINE-4



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	PINE-5		
Location	Coquitlam	Date	6/25/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'54.5" N, 122°45'42.2" W							FIT
Crown Species Composition (species %)			50Hw35Cw15Fd				
Ladder Fuel Species Composition (species %)			70Cw30Hw				
Component/ Sub Component		Levels/ Classes					
Forest Floor and Organic Layer							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
Surface and Ladder Fuel (0.1 – 3.0 meters in height)							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
Stand Structure and Composition (Dominant and Co- Dominate stems)							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Low	WTA Total 43		
<b>Comments:</b>							
Dense deciduous understory. Low density of surface and ladder fuels. CBH slightly lower than previous PINE plots. Some dead stems at top of slope most likely due to lack of water. Overall low-moderate fuel hazard in stand. See PINE-3 for recommendations.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Sampled:

6/25/21

Plot #

PINE-5

General Location:

Coquitlam

Coordinates:

49°18'54.5" N, 122°45'42.2" W

FBP Fuel Type:

C-5

Slope (%):

37

Aspect (deg.):

265

Elevation (m):

200

Canopy Closure (%):

50

Average Forest Floor Depth

(cm):

3-4

SURFACE FUELS:

Photo comment:

[Empty text box for photo comment]

Theodolite



Date & Time: Fri, Jun 25, 2021, 12:25:59 PDT  
Position: +049 314887.7 / -122.761338 (-5.0m)  
Altitude: 195m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 342° N 8W 6080mils True (±20°)  
Elevation Angle: -36.0°  
Horizon Angle: +04.3°  
Zoom: 1.0X  
PINE-5

LADDER FUELS

Theodolite

Photo Comment:

West

[Empty text box for photo comment]



Date & Time: Fri, Jun 25, 2021, 12:25:52 PDT  
Position: +049 314887.7 / -122.761338 (-5.0m)  
Altitude: 195m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 270° S 90W 4800mils True (±20°)  
Elevation Angle: +27.2°  
Horizon Angle: +01.1°  
Zoom: 1.0X  
PINE-5

CROWN FUELS:

Theodolite

Photo Comment:

[Empty text box for photo comment]



Date & Time: Fri, Jun 25, 2021, 12:26:01 PDT  
Position: +049 314891.7 / -122.761338 (-5.0m)  
Altitude: 195m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 338° N 22W 6009mils True (±20°)  
Elevation Angle: +75.9°  
Horizon Angle: +01.3°  
Zoom: 1.0X  
PINE-5

Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	PINE-6		
Location	Coquitlam	Date	6/25/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'59.8" N, 122°45'22.5" W							FIT
Crown Species Composition (species %)			40Fd30Hw30Cw				
Ladder Fuel Species Composition (species %)			70Cw30Hw				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15	
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15	
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10	
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10	
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2  5  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15	
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10	
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment High		WTA Total 60	
<b>Comments:</b>							
Healthy overstory. L3 ladder fuels quite abundant but lacking L4 ladder fuels. Surface fuels moderate all sizes. CBH high on L1/L2 trees so no need for pruning. Potential for treatment: Thinning of L3 and L4 ladder fuels, SFR.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

PROJECT:

[Empty box for Project Name]

### British Columbia Wildfire Service - Photo Guide

#### SITE INFORMATION

Sampled:

6/25/21

Plot #

PINE-6

General Location:

Coquitlam

Coordinates:

49°18'59.8" N, 122°45'22.5" W

FBP Fuel Type:

C-5

Slope (%):

25

Aspect (deg.):

260

Elevation (m):

290

Canopy Closure (%):

50

Average Forest Floor Depth

(cm):

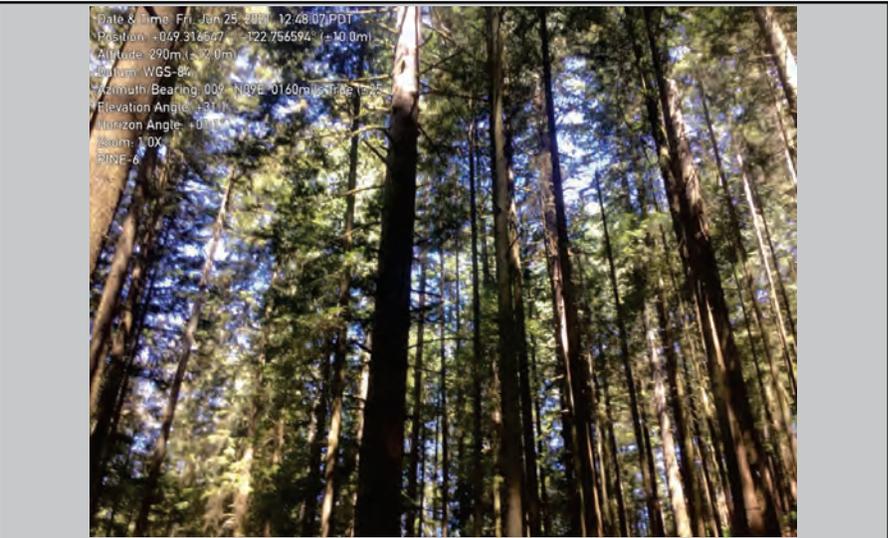
7

Photo comment:

[Empty box for Photo Comment]

Theodolite

#### SURFACE FUELS:



Theodolite

#### LADDER FUELS

Photo Comment:

North

#### CROWN FUELS:

Photo Comment:

[Empty box for Photo Comment]

Theodolite



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	PINE-7	
Location	Coquitlam	Date	6/25/21	Assessor/ Professional Designation	M. Catt	
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'51.4" N, 122°44'37.8" W						
Crown Species Composition (species %)			40Hw40Cw20Fd			
Ladder Fuel Species Composition (species %)			70Cw30Hw			
Component/ Sub Component	Levels/ Classes					
<b>Forest Floor and Organic Layer</b>						
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>						
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>						
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25%  2 50%  5 75%  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 46	
<b>Comments:</b>						
Healthy overstory. Deciduous understory. Surface fuels low except along mountain bike trail edge they are moderate due to trail clearing. Ladder fuels sparse. Fairly low hazard stand. If any treatment recommended, it would be adjacent to trails for SFR.						

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Plot # **PINE-7**

General Location: **Coquitlam**

Sampled: **6/25/21**

Coordinates: **49°18'51.4" N, 122°44'37.8" W**

FBP Fuel Type: **C-5**

Slope (%): **25**

Aspect (deg.): **260**

Elevation (m): **395**

Canopy Closure (%): **55**

Average Forest Floor Depth (cm): **7**

**SURFACE FUELS:**

Photo comment:

Theodolite



**LADDER FUELS**

Theodolite

Photo Comment:

North

**CROWN FUELS:**

Theodolite

Photo Comment:



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	Quarry-1		
Location	Coquitlam	Date	6/21/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°19'35.5" N, 122°40'24.0" W							FIT
Crown Species Composition (species %)			60Fd30Cw10Hw				
Ladder Fuel Species Composition (species %)			70Cw30Hw				
Component/ Sub Component		Levels/ Classes					
Forest Floor and Organic Layer							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
Surface and Ladder Fuel (0.1 – 3.0 meters in height)							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
Stand Structure and Composition (Dominant and Co- Dominate stems)							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25%  50%  75% 	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 46		
<b>Comments:</b>							
C-5, however understory conifer regen limited due to rocky area and understory dominated by deciduous herbs (mostly sword fern). Occasional deciduous (maple) mixed in stand. Decent amount of canopy gaps. High CBH on L1 trees. Very dense understory deciduous herb layer. Low surface fuels. Fuel hazard not high, but may increase in a number of years as some dominant and codominant trees die off.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/21/21

Plot #

Quarry-1

General Location:

Coquitlam

Coordinates:

49°19'35.5" N, 122°40'24.0" W

FBP Fuel Type:

C-5

Slope (%):

35

Aspect (deg.):

169

Elevation (m):

50

Canopy Closure (%):

50

Average Forest Floor Depth

(cm):

2

**SURFACE FUELS:**



Photo comment:

Theodolite

Date & Time: Mon, Jun 21, 2021, 09:06:27 PDT  
 Position: +049.326540° / -122.673347° (+10.0m)  
 Altitude: 51m (+19.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 269° S89W 4782mils True (+20°)  
 Elevation Angle: +31.7°  
 Horizon Angle: +01.0°  
 Zoom: 1.0X  
 Quarry-1



**LADDER FUELS**

Theodolite

Photo Comment:

West

**CROWN FUELS:**

Theodolite

Photo Comment:

Date & Time: Mon, Jun 21, 2021, 09:05:46 PDT  
 Position: +049.326533° / -122.673343° (+10.0m)  
 Altitude: 51m (+19.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 157° S23E 2791mils True (+20°)  
 Elevation Angle: +83.3°  
 Horizon Angle: -50.2°  
 Zoom: 1.0X  
 Quarry-1



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	Quarry-2		
Location	Coquitlam	Date	6/21/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°19'31.7" N, 122°41'00.5" W							FIT
Crown Species Composition (species %)			70Fd20Cw10Hw				
Ladder Fuel Species Composition (species %)			70Hw30Cw				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15	
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15	
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10	
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10	
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2  5  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15	
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10	
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate		WTA Total 47	
<b>Comments:</b>							
C-5, however understory conifer regen somewhat limited due to rocky area and understory dominated by deciduous herbs (mostly sword fern and salal). Occasional deciduous (maple) mixed in stand. Decent amount of canopy gaps. High CBH on L1 trees. Very dense understory deciduous herb layer. Low surface fuels. Fuel hazard not high, but may increase in a number of years as some dominant and codominant trees die off. Hummocky terrain with steep pitches.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/21/21

Plot #

Quarry-2

General Location:

Coquitlam

Coordinates:

49°19'31.7" N, 122°41'00.5" W

FBP Fuel Type:

C-5

Slope (%):

32

Aspect (deg.):

190

Elevation (m):

115

Canopy Closure (%):

50

Average Forest Floor Depth

(cm):

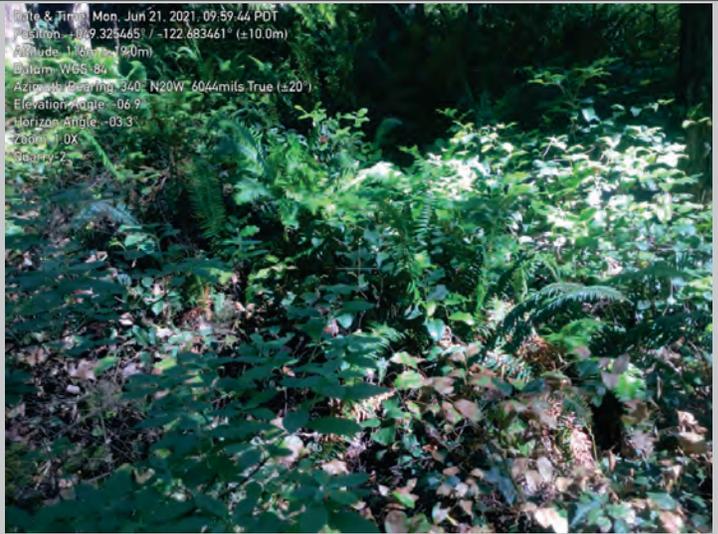
3

**SURFACE FUELS:**

Photo comment:

Theodolite

Date & Time: Mon, Jun 21, 2021, 09:59:44 PDT  
Position: +049.325465° N, -122.683461° W (±10.0m)  
Altitude: 116m (±19.0m)  
Datum: WGS 84  
Azimuth/Bearing: 340° N20W 76044mils True (±20°)  
Elevation Angle: -06.9°  
Horizon Angle: -03.3°  
Zoom: 1.0X  
Quarry-2



Date & Time: Mon, Jun 21, 2021, 09:59:58 PDT  
Position: +049.325466° N, -122.683457° W (±10.0m)  
Altitude: 116m (±19.0m)  
Datum: WGS 84  
Azimuth/Bearing: 340° N80W 76000mils True (±20°)  
Elevation Angle: -47.4°  
Horizon Angle: -00.3°  
Zoom: 1.0X  
Quarry-2



**LADDER FUELS**

Theodolite

Photo Comment:

North

**CROWN FUELS:**

Photo Comment:

Theodolite

Date & Time: Mon, Jun 21, 2021, 09:59:51 PDT  
Position: +049.325465° N, -122.683461° W (±10.0m)  
Altitude: 116m (±19.0m)  
Datum: WGS 84  
Azimuth/Bearing: 015° N15E 02572mils True (±20°)  
Elevation Angle: -82.6°  
Horizon Angle: -28.5°  
Zoom: 1.0X  
Quarry-2



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	WALT-1		
Location	Coquitlam	Date	6/23/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'03.8" N, 122°48'09.9" W							FIT
Crown Species Composition (species %)			Hw60Rd20Cw10Fd10				
Ladder Fuel Species Composition (species %)			Hw50Cw30Rd20				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 46		
<b>Comments:</b>							
Mixed stand with overall low to moderate hazard rating. Lots of deciduous overstory. Ladder fuels not dense. Low surface fuels. Healthy stand, no need to treat.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/23/21

Plot #

WALT-1

General Location:

Coquitlam

Coordinates:

49°18'03.8" N, 122°48'09.9" W

FBP Fuel Type:

M-1/2

Slope (%):

10

Aspect (deg.):

260

Elevation (m):

35

Canopy Closure (%):

30

Average Forest Floor Depth

(cm):

6

**SURFACE FUELS:**

Date & Time: Wed, Jun 23, 2021, 15:45:45 PDT  
Position: +049 287349 / -122 476986 (±5.0m)  
Altitude: 33m (±4.0m)  
Datum: WGS-84  
Azimuth/Bearing: 260 / 385W 201mils True (±20°)  
Elevation Angle: +21.3°  
Horizon Angle: -0.0°  
Zoom: 1.0X  
WALT-1



Photo comment:

Theodolite

Date & Time: Wed, Jun 23, 2021, 15:45:31 PDT  
Position: +049 287349 / -122 477016 (±5.0m)  
Altitude: 33m (±4.0m)  
Datum: WGS-84  
Azimuth/Bearing: 000 / 000W 0.0mils True (±20°)  
Elevation Angle: +20.0°  
Horizon Angle: -0.0°  
Zoom: 1.0X  
WALT-1



**LADDER FUELS**

Theodolite

Photo Comment:

East

**CROWN FUELS:**

Theodolite

Photo Comment:

Date & Time: Wed, Jun 23, 2021, 15:46:14 PDT  
Position: +049 287358 / -122 797097 (±5.0m)  
Altitude: 32m (±4.0m)  
Datum: WGS-84  
Azimuth/Bearing: 324 / 306W 5760mils True (±20°)  
Elevation Angle: +68.9°  
Horizon Angle: -00.4°  
Zoom: 1.0X  
WALT-1



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	WEST-1		
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'44.9" N, 122°47'33.3" W							FIT
Crown Species Composition (species %)			80Hw10FdCw10				
Ladder Fuel Species Composition (species %)			50Hw50Cw				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25%  50%  75% 	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate		WTA Total 51	
<b>Comments:</b>							
Hw dominated, sparse ladder fuels. Moderate deciduous understory. Fine and medium surface fuels continuous. CWD fairly sparse. Park adjacent to school. Quite high CC, strata gaps, and CBH. Overall not high risk but fuel loading may increase if Hw suffers forest health issues.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

**SITE INFORMATION** Date

Sampled:

6/22/21

Plot #

WEST-1

General Location:

Coquitlam

Coordinates:

49°18'44.9" N, 122°47'33.3" W

FBP Fuel Type:

C-3

Slope (%):

35

Aspect (deg.):

118

Elevation (m):

310

Canopy Closure (%):

75

Average Forest Floor Depth

(cm):

5

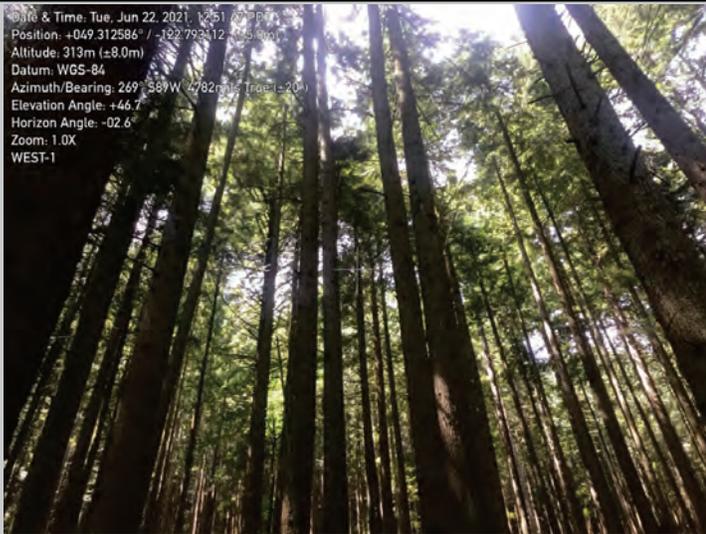
**SURFACE FUELS:**



Photo comment:

Theodolite

Date & Time: Tue, Jun 22, 2021, 12:51:07 PM  
 Position: +049.312586 / -122.793312 (±5.0m)  
 Altitude: 313m (±8.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 269°58'W 4782mils True (±20)  
 Elevation Angle: +46.7  
 Horizon Angle: -02.6  
 Zoom: 1.0X  
 WEST-1



**LADDER FUELS**

Theodolite

Photo Comment:

West

**CROWN FUELS:**

Theodolite

Photo Comment:

Date & Time: Tue, Jun 22, 2021, 12:52:00 PM  
 Position: +049.312510 / -122.773117 (±5.0m)  
 Altitude: 308m (±8.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 263°58'W 4676mils true (±20)  
 Elevation Angle: +78.2  
 Horizon Angle: -00.1  
 Zoom: 1.0X  
 WEST-1



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	WEST-2		
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'08.3" N, 122°47'17.3" W							FIT
Crown Species Composition (species %)			60Hw30Cw10Fd				
Ladder Fuel Species Composition (species %)			70Hw30Cw				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 48		
<b>Comments:</b>							
Plot in a steep gully. West aspect. Fairly dense deciduous shrub layer. Fairly open canopy. Hw dominated with some deciduous trees and other conifers. Some regen, but decent sized strata gaps. Running creek in gully. Surface fuels patchy and moderate in spots, but overall low.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Sampled:

6/22/21

Plot #

WEST-2

General Location:

Coquitlam

Coordinates:

49°18'08.3" N, 122°47'17.3" W

FBP Fuel Type:

C-5

Slope (%):

40

Aspect (deg.):

170

Elevation (m):

180

Canopy Closure (%):

50

Average Forest Floor Depth

(cm):

2

SURFACE FUELS:

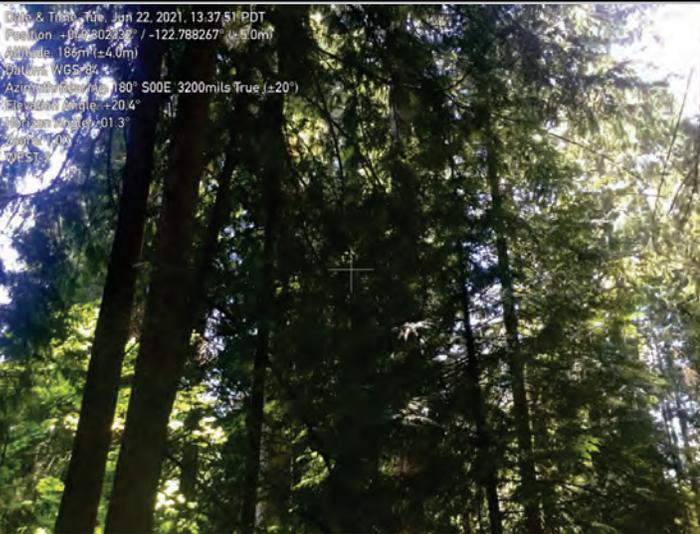
Photo comment:

Theodolite

Date & Time: Tue, Jun 22, 2021, 13:38:05 PDT  
Position: +049.302335° / -122.788241° (±5.0m)  
Altitude: 179m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 302.386W, 5369mils True (±20°)  
Elevation Angle: -69.5°  
Horizon Angle: -09.7°  
Zoom: 1.0X  
WEST-2



Date & Time: Tue, Jun 22, 2021, 13:37:51 PDT  
Position: +049.302335° / -122.788267° (±5.0m)  
Altitude: 186m (±4.0m)  
Datum: WGS-84  
Azimuth/Bearing: 180° S00E, 3200mils True (±20°)  
Elevation Angle: -20.4°  
Horizon Angle: -01.3°  
WEST-2



LADDER FUELS

Theodolite

Photo Comment:

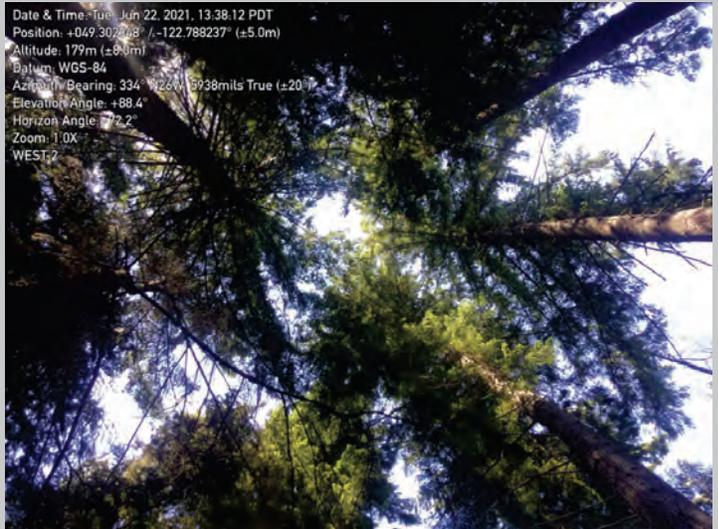
South

CROWN FUELS:

Photo Comment:

Theodolite

Date & Time: Tue, Jun 22, 2021, 13:38:12 PDT  
Position: +049.302335° / -122.788237° (±5.0m)  
Altitude: 179m (±8.0m)  
Datum: WGS-84  
Azimuth/Bearing: 334.122W, 3938mils True (±20°)  
Elevation Angle: +88.4°  
Horizon Angle: -7.2°  
Zoom: 1.0X  
WEST-2



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	WEST-3		
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'03.8" N, 122°48'09.9" W							FIT
Crown Species Composition (species %)			70Hw20Cw10Rd				
Ladder Fuel Species Composition (species %)			80HwCw				
Component/ Sub Component		Levels/ Classes					
Forest Floor and Organic Layer							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
Surface and Ladder Fuel (0.1 – 3.0 meters in height)							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
Stand Structure and Composition (Dominant and Co- Dominate stems)							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment High	WTA Total 66		
<b>Comments:</b>							
Previously treated in 2011. Low CBH. Hemlock looper in stand causing serious forest health issues. High surface fuel loading of all sizes due to dying Hw and some illegal dumping of wood in areas. Pruning, thinning and surface fuel removal recommended - HIGH priority.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Plot # WEST-3

General Location: Coquitlam

Sampled: 6/22/21

Coordinates: 49°18'03.8" N, 122°48'09.9" W

FBP Fuel Type: C-3

Slope (%): 30

Aspect (deg.): 85

Elevation (m): 210

Canopy Closure (%): 65

Average Forest Floor Depth (cm): 7

SURFACE FUELS:



Photo comment:

Theodolite

Date & Time: Tue, Jun 22, 2021, 14:53:18 PDT  
 Position: -049.301155 / -122.802769 (±10.0m)  
 Altitude: 210m (±19.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 183.503W 3253mils True (±20°)  
 Elevation Angle: 31.5  
 Horizon Angle: 41.8  
 Zoom: 1.0x  
 WEST-3



LADDER FUELS

Theodolite

Photo Comment:

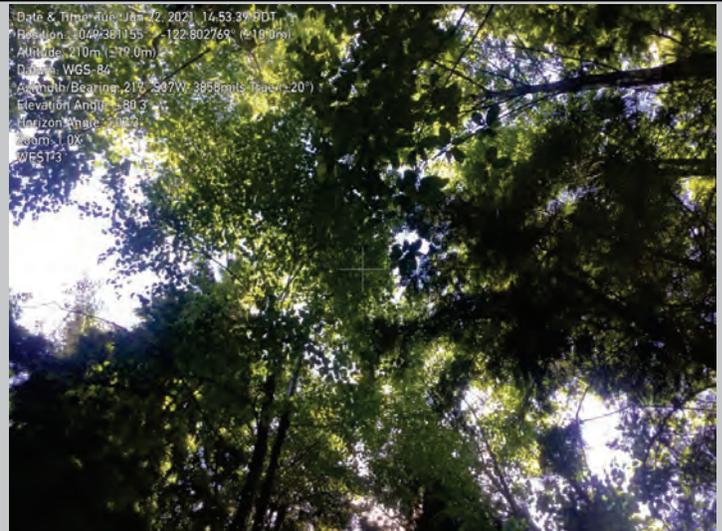
South

CROWN FUELS:

Theodolite

Photo Comment:

Date & Time: Tue, Jun 22, 2021, 14:53:39 PDT  
 Position: -049.301155 / -122.802769 (±10.0m)  
 Altitude: 210m (±19.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 215.507W 3858mils True (±20°)  
 Elevation Angle: 50.3  
 Horizon Angle: 45.3  
 Zoom: 1.0x  
 WEST-3



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	WEST-4		
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'10.0" N, 122°48'04.0" W							FIT
Crown Species Composition (species %)			80Hw10Cw10Fd				
Ladder Fuel Species Composition (species %)			80Hw20Cw				
Component/ Sub Component	Levels/ Classes						
<b>Forest Floor and Organic Layer</b>							
1	Depth of Organic layer (cm)	1-<2 1	2-<5 3	5-<10 5	10-20 3	>20 2	
<b>Surface and Ladder Fuel (0.1 – 3.0 meters in height)</b>							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs 4	Lichen, Conifer Shrubs 6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm) 8	Pinegrass 10	Sagebrush, Bunchgrass, Juniper Scotch broom 15	
3	Dead and Down material Continuity (<7cm)	Absent 0	Scattered <10 coverage 4	10 -25% coverage 8	26-50% coverage 12	>50% Coverage 15	
4	Ladder fuel composition	Deciduous 0	Mixwood 3	Other conifer 5	Elevated dead fuel 7	Spruce/ Fir/ Pine 10	
5	Ladder fuel horizontal continuity	Absent 0	Sparse <10% coverage 2	Scattered 10 – 39% coverage 5	Patchy 40-60% coverage 8	Uniform >60% coverage 10	
6	Stem/ha (understory) <sup>3</sup>	<900 2	901-1 500 4	1 501-2 500 6	2 501-4 000 8	>4 000 10	
<b>Stand Structure and Composition (Dominant and Co- Dominate stems)</b>							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer) 0	Mixwood (% Conifer) 25% 50% 75% 2  5  7	Conifer with high CBH (>10m) 10	Conifer with moderate CBH (6-9M) 12	Conifer with low CBH (<5m) 15	
8	Crown Closure	< 20% 0	20 -40% 1	41-60% 2	61-80% 5	>80% 4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10 0	6-9 3	3-6 7	<3 10	
10	Stems/ha live/ grn dom & codom (overstory)	<400 0	401-600 2	601-900 3	901-1 200 4	>1 200 5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20% 2	Standing Dead/ Partial down 21-50% 5	Standing Dead/ Partial down 51- 75% 8	Standing Dead/ Partial down >75% 10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment Moderate	WTA Total 54		
<b>Comments:</b>							
Previously treated in 2011. Ladder fuels quite sparse. Very little understory vegetation and conifer regen. Moderate surface fuels. Overall moderate hazard. Potential to be re-treated with thinning and surface fuel removal, but low to moderate priority.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

SITE INFORMATION Date

Plot # WEST-4

General Location: Coquitlam

Sampled: 6/22/21

Coordinates: 49°18'10.0" N, 122°48'04.0" W

FBP Fuel Type: C-3

Slope (%): 55

Aspect (deg.): 108

Elevation (m): 280

Canopy Closure (%): 55

Average Forest Floor Depth

(cm): 7

Photo comment:

Theodolite

#### SURFACE FUELS:



#### LADDER FUELS

Theodolite

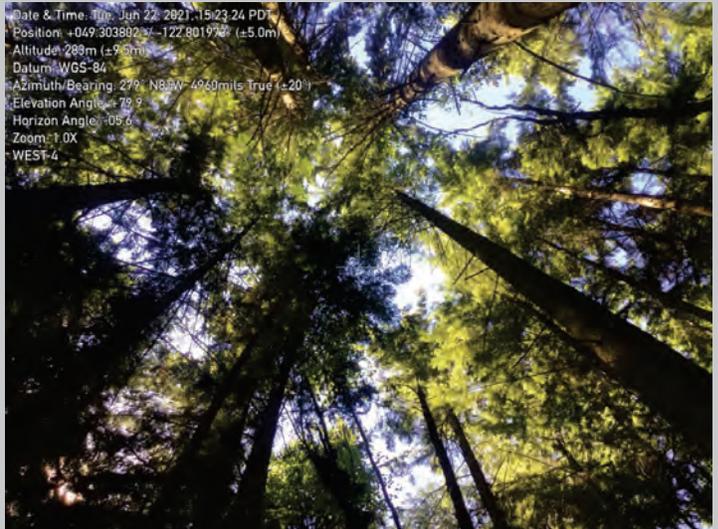
Photo Comment:

North

#### CROWN FUELS:

Theodolite

Photo Comment:



Wildfire Threat Assessment Worksheet – Fuel Assessment (Site Level)				Plot #	WEST-5		
Location	Coquitlam	Date	6/22/21	Assessor/ Professional Designation	M. Catt		
Coordinates (Lat/Long – Degrees/Decimal minutes): 49°18'10.1" N, 122°48'17.0" W							FIT
Crown Species Composition (species %)			80Hw10Fd10Cw				
Ladder Fuel Species Composition (species %)			60Hw40Cw				
Component/ Sub Component		Levels/ Classes					
Forest Floor and Organic Layer							
1	Depth of Organic layer (cm)	1-<2  1	2-<5  3	5-<10  5	10-20  3	>20  2	
Surface and Ladder Fuel (0.1 – 3.0 meters in height)							
2	Surface fuel composition	Moss, Herbs and Deciduous Shrubs  4	Lichen, Conifer Shrubs  6	Dead fines (Leaves, Needles or fine branch material) fuel (<1 cm)  8	Pinegrass  10	Sagebrush, Bunchgrass, Juniper Scotch broom  15	
3	Dead and Down material Continuity (<7cm)	Absent  0	Scattered <10 coverage  4	10 -25% coverage  8	26-50% coverage  12	>50% Coverage  15	
4	Ladder fuel composition	Deciduous  0	Mixwood  3	Other conifer  5	Elevated dead fuel  7	Spruce/ Fir/ Pine  10	
5	Ladder fuel horizontal continuity	Absent  0	Sparse <10% coverage  2	Scattered 10 – 39% coverage  5	Patchy 40-60% coverage  8	Uniform >60% coverage  10	
6	Stem/ha (understory) <sup>3</sup>	<900  2	901-1 500  4	1 501-2 500  6	2 501-4 000  8	>4 000  10	
Stand Structure and Composition (Dominant and Co- Dominate stems)							
7	Overstory Composition/ CBH (Crown Base Height)	Deciduous (< 25% conifer)  0	Mixwood (% Conifer) 25% 50% 75%  2  5  7	Conifer with high CBH (>10m)  10	Conifer with moderate CBH (6-9M)  12	Conifer with low CBH (<5m)  15	
8	Crown Closure	< 20%  0	20 -40%  1	41-60%  2	61-80%  5	>80%  4	
9	Fuel Strata Gap <sup>4</sup> (m)		> 10  0	6-9  3	3-6  7	<3  10	
10	Stems/ha live/ grn dom & codom (overstory)	<400  0	401-600  2	601-900  3	901-1 200  4	>1 200  5	
11	Dead and Dying (% of dominant and co-dominant stems)		Standing Dead/ Partial down <20%  2	Standing Dead/ Partial down 21-50%  5	Standing Dead/ Partial down 51- 75%  8	Standing Dead/ Partial down >75%  10	
Ecoprovince Coast and Mountains (0/44/60/73)				Threat Assessment High		WTA Total 63	
<b>Comments:</b>							
Plot in shallow gully adjacent to paved road. Continuous fine to medium woody debris. Not much young regen, but fair amount of ladder fuels of various heights. Low fuel strata gap. CWD dense in some areas, moderate overall. If treated, thinning of ladder fuels and surface fuel removal is recommended, along with pruning.							

<sup>3</sup> Understory is considered ladder and suppressed stems in this category (distinct break between these stems and overstory)

<sup>4</sup> Fuel Strata Gap – Distance from top of ladder fuel to live crown base height of overstory

PROJECT:

Coquitlam CWRP 2021

PROJECT:

Coquitlam CWRP 2021

### British Columbia Wildfire Service - Photo Guide

#### SITE INFORMATION

Date

Plot #

WEST-5

General Location:

Coquitlam

Sampled:

6/22/21

Coordinates:

49°18'10.1" N, 122°48'17.0" W

FBP Fuel Type:

C-5

Slope (%):

20

Aspect (deg.):

160

Elevation (m):

250

Canopy Closure (%):

75

Average Forest Floor Depth

(cm):

4

#### SURFACE FUELS:

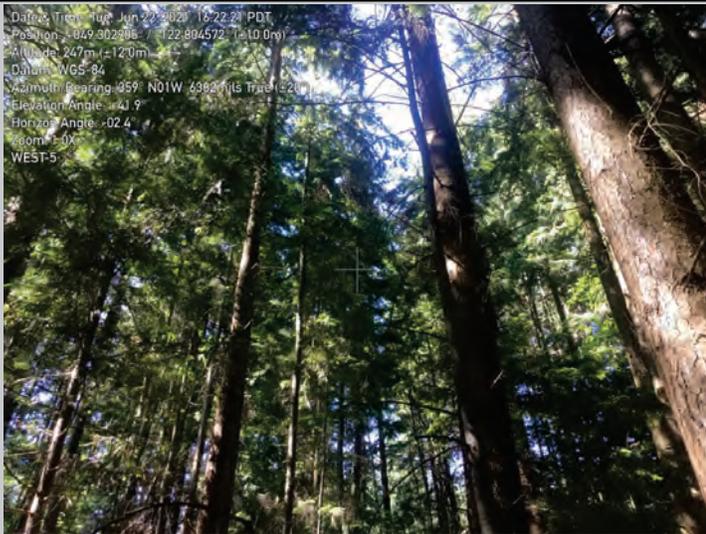
Photo comment:

Theodolite

Date & Time: Tue Jun 22, 2021 16:22:43 PDT  
 Position: +049.302786 / -122.804753 (±5.0m)  
 Altitude: 249m (±6.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 265° S85W 4711mils True (±20°)  
 Elevation Angle: -52.1  
 Horizon Angle: -03.1  
 Zoom: 1.0X  
 WEST-5



Date & Time: Tue Jun 22, 2021 16:22:27 PDT  
 Position: +049.302906 / -122.804572 (±10.0m)  
 Altitude: 247m (±12.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 95° N01W 3380mils True (±20°)  
 Elevation Angle: +41.9  
 Horizon Angle: -02.4  
 Zoom: 1.0X  
 WEST-5



#### LADDER FUELS

Theodolite

Photo Comment:

North

#### CROWN FUELS:

Theodolite

Photo Comment:

Date & Time: Tue Jun 22, 2021 16:22:48 PDT  
 Position: +049.302716 / -122.804745 (±5.0m)  
 Altitude: 249m (±6.0m)  
 Datum: WGS-84  
 Azimuth/Bearing: 275° N84W 4907mils True (±20°)  
 Elevation Angle: +78.7  
 Horizon Angle: -03.4  
 Zoom: 1.0X  
 WEST-5

