



Grade Inspection Report

Job Number / Name: **LACOMBE**

Client P/O Number: _____

Manuf. P/O Number: _____

Specification: NLGA NO. 1 (10 - 15% NO 2)

Inspection Date(s): **January 23, 2020**

COMMENTS: 31,140 FBM

Mark on Accepted Pieces: **CSI 5I**

Inspector: 



Canadian Softwood Inspection Agency, Inc.

TREATED WOOD INSPECTION REPORT

☐ Plant ☐ Destination ☒ Other

Date of Inspection: March 16, 2020

Client: Welco

Access by: _____

Location: Western Cleanwood, Surrey

Accompanied by: _____

ITEM

☒ Lumber Charge Number 2-68
☐ Timbers Standard Treated To UC4.1
☐ Plywood Species ☐ D Fir ☐ LPP
☐ Posts ☒ Hem-Fir

CHARGE DETAILS

☐ 2" ☐ 4" ☐ 6" ☒ Other 3"
☐ 1/2" ☐ 5/8" ☐ 3/4" ☐ 1"
☐ 0.25 ☒ 0.40 ☐ 0.50 ☐ 30 kg/m3 (1.87 pcf)
☒ CCA ☐ ACQ ☐ ACZA

QUALITY MARK

☐ Label ☐ Stamp ☒ Hammer
☒ Good ☐ Fair ☐ Poor

INSPECTION RESULTS

Penetration Requirement: 10mm & 85% sapwood

Number of Units Sampled: all

Incised: ☒ Yes ☐ No

Kiln Dried (AT): ☐ Yes ☒ No

PENETRATIONS

	Sap Depth	Pen (mm)	Pen %	Outer Veneer	Inner Veneer
1		25	100		
2		17	100		
3		32	100		
4		32	100		
5		28	100		
6		16	100		
7		42	100		
8		15	100		
9		13	100		
10		14	100		
11		14	100		
12		16	100		
13		24	100		
14		18	100		
15		38	100		
16		36	100		
17	20	15	75		
18		33	100		
19		13	100		
20		13	100		

Penetration Conformance Lumber / Posts

Cores Taken: 20 No. Pass: 19 Percent: 95

Plywood

Outer Veneers: _____ No. Pass: _____ Percent: _____

Inner Veneers: _____ No. Pass: _____ Percent: _____

Total Veneers: _____ No. Pass: _____ Percent: _____

PENETRATION: ☒ PASS ☐ FAIL

Assay Conformance

CrO₃: 0.578 CuO: _____

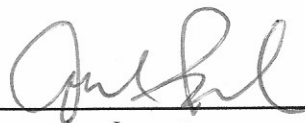
CuO: 0.195 Quat*: _____

AS₂O₃: 0.397

Total: 1.17 Total: _____

** estimated*

RETENTION: ☒ PASS ☐ FAIL



Inspector

Comments: 3x12 - 144/20'

Charge

68

3.68

Plant: (1) Western Cleanwood Preservers Ltd.
9815 Robson Road
Surrey, B.C.
PH: 604-585-2511
Fax: 604-585-1548

Treatment: Heavy Timbers - CCA
Date: 2/11/2020 6:12 AM
Preservative: CCA
Retention Target: 0.4
Cylinder: 1
Tank: 1
Operator: Wally [0]
Void (10700)

Total Time: 08:17
Change Out (min): 945.9
Change Out Reason: Board Ft: 8,640
Cubic Ft: 720
DVIn: 679
DVOut: 755
Treat By: Tally

Gallons Start: 11,295
Gallons Finish: 9,595
Gallons Used: 1,700

Step	Time		Pressure		Injection		Retention		Flow Rate		Temp	Time		Volume	Reason
	Min	Max	Act	Min	Max	Act	Min	Max	Act	Min	Max	Start	End		
Initial Vacuum	30	30	-22	-21		0.00		0.000	0.000		45	06:12:57	06:43:00	11,292	Time
Fill	10	3	-21	-18		0.35		0.090	2.9361		45	06:43:00	06:45:54	4,833	PLC
Raise Press	15	2	75	76		0.96		0.243	0.2106		45	06:45:54	06:48:12	4,400	PSI
Pressure	420	420	150	150		2.78		0.708	0.0013		51	06:48:12	13:48:14	3,084	Time
Pressure Relief	10	9	13	7		2.74		0.696	0.0000		50	13:48:14	13:57:08	3,118	PSI
Empty	10	4		8		3.08		0.785	0.0000		50	13:57:08	14:01:34	9,075	PLC
Final Vacuum	20	20	-22	-21		2.95		0.752	0.0000		51	14:01:34	14:21:36	9,168	Time
Final Empty	20	7	-1	0		2.40		0.612	0.0000		51	14:21:37	14:28:49	9,564	PLC
Finish	1	1	-1	0		2.36		0.601	0.0000		51	14:28:49	14:29:51	9,595	Time

Automatic Mix Information

Chemical	Current	Target	As Mixed	Unit	Required	Actual	Difference	(from Tank 2)
Water	8,793	11,300	11,304	Gals.	412.9	433.0	20.2	1,982.0
CCA	2,0620 %	2,5000 %	2,4963 %	Gals.	94.2	93.8	-0.4	0.0

Chemical Usage

Type	Chemical	Solution	Unit	Lbs / Gal	Lbs Used	Retention
Active	CCA	2.4963 %	Lbs (Active)	0.2545	432.57	0.6008

Material Information

Item Code	Description	Pieces	Packs/Size	BF	CF	Std	Mill	Retreat	Customer	Moist %	Rem 1
1	HR312X20	144	6 @ 24	8,640	720				WELCO	0	



Canadian Softwood Inspection Agency, Inc.

TREATED WOOD INSPECTION REPORT

☐ Plant ☐ Destination ☒ Other

Date of Inspection: March 16, 2020

Client: Welco

Access by: _____

Location: Western Cleanwood, Surrey

Accompanied by: _____

ITEM

☒ Lumber Charge Number 3-79
☐ Timbers Standard Treated To UC4.1
☐ Plywood Species ☐ D Fir ☐ LPP
☐ Posts ☒ Hem-Fir

QUALITY MARK

☐ Label ☐ Stamp ☒ Hammer
☒ Good ☐ Fair ☐ Poor

PENETRATIONS

	Sap Depth	Pen (mm)	Pen %	Outer Veneer	Inner Veneer
1		26	100		
2		15	100		
3		16	100		
4		10	100		
5		10	100		
6		13	100		
7		8	100		
8		16	100		
9		35	100		
10		24	100		
11		16	100		
12		18	100		
13		10	100		
14		15	100		
15		10	100		
16		9	100		
17		16	100		
18		18	100		
19		38	100		
20		38	100		

CHARGE DETAILS

☐ 2" ☐ 4" ☐ 6" ☒ Other 3"
☐ 1/2" ☐ 5/8" ☐ 3/4" ☐ 1"
☐ 0.25 ☒ 0.40 ☐ 0.50 ☐ 30 kg/m³ (1.87 pcf)
☒ CCA ☐ ACQ ☐ ACZA

INSPECTION RESULTS

Penetration Requirement: 10mm & 85% sapwood
Number of Units Sampled: all
Incised: ☒ Yes ☐ No
Kiln Dried (AT): ☐ Yes ☒ No

Penetration Conformance Lumber / Posts

Cores Taken: 20 No. Pass: 18 Percent: 90

Plywood
Outer Veneers: _____ No. Pass: _____ Percent: _____
Inner Veneers: _____ No. Pass: _____ Percent: _____
Total Veneers: _____ No. Pass: _____ Percent: _____

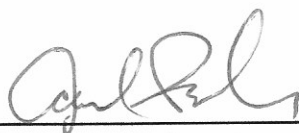
PENETRATION: ☒ PASS ☐ FAIL

Assay Conformance

CrO₃: 0.469 CuO: _____
CuO: 0.160 Quat*: _____
AS₂O₃: 0.334
Total: 0.96 Total: _____

* estimated

RETENTION: ☒ PASS ☐ FAIL



Inspector

Comments: 3x12 - 144/20'

Charge

79

3-79

Plant: (1) Western Cleanwood Preservers Ltd.
9815 Robson Road
Surrey, B.C.
PH:604-585-2511
Fax: 604-585-1548

Treatment: Heavy Timbers - CCA
Date: 2/16/2020 6:14 AM
Preservative: CCA
Retention Target: 0.4
Cylinder: 1
Void (10700)

Total Time: 08:18
Change Out (min): 2,317.8
Change Out Reason:
Board Ft: 8,640
Cubic Ft: 720
DVIn: 699
DVOut: 762
Tally

Operator: Wally [0]

Treat By: Tally

Step	Time		Pressure		Injection		Retention		Flow Rate		Temp	Time		Volume	Reason
	Min	Max	Act	Min	Max	Act	Min	Max	Act	Min		Start	End		
Initial Vacuum	30	30	-22	-21		0.00		0.000		-0.001	50	06:14:43	06:44:45	11,317	Time
Fill	10	3	-21	-18		0.19		0.047		2.9542	50	06:44:46	06:47:35	4,976	PLC
Raise Press	15	2	75	76		0.81		0.206		0.2108	50	06:47:36	06:49:59	4,527	PSI
Pressure	420	420	150	150		2.72		0.694		0.0012	53	06:49:59	13:50:01	3,149	Time
Press Relief	10	9	13	7		2.68		0.682		0.0000	52	13:50:01	13:58:57	3,183	PSI
Empty	10	4		8		3.08		0.786		0.0000	52	13:58:57	14:03:19	9,097	PLC
Final Vacuum	20	20	-22	-21		2.97		0.756		0.0000	52	14:03:19	14:23:20	9,180	Time
Final Empty	20	8	-1	0		2.36		0.601		0.0000	53	14:23:21	14:31:31	9,620	PLC
Finish	1	1	-1	0		2.32		0.592		0.0000	53	14:31:31	14:32:32	9,645	Time

POSTED

Automatic Mix Information							
Chemical	Current	Target	As Mixed	Unit	Required	Actual	Difference
Water	8,806	11,300	11,317	Gals.	2,400.1	2,418.0	17.9
CCA	2.0620 %	2.5000 %	2.4934 %	Gals.	93.9	93.6	-0.3

Chemical Usage							
Type	Chemical	Solution	Unit	Lbs / Gal	Lbs Used	Retention	
Active	CCA	2.5000 %	Lbs (Active)	0.2548	426.09	0.5918	0.5918

Material Information									
ItemCode	Description	Pieces	Packs/Size	BF	CF	Std	Mill	Retreat	Customer
1	HR312X20	144	6 @ 24	8,640	720				WELCO
									Moist %
									Rem 1



Canadian Softwood Inspection Agency, Inc.

TREATED WOOD INSPECTION REPORT

☐ Plant ☐ Destination ☒ Other

Date of Inspection: **March 16, 2020**

Client: **Welco**

Access by: _____

Location: **Western Cleanwood, Surrey**

Accompanied by: _____

ITEM

☒ Lumber Charge Number **3-95**
☐ Timbers Standard Treated To **UC4.1**
☐ Plywood Species ☐ D Fir ☐ LPP
☐ Posts ☒ **Hem-Fir**

CHARGE DETAILS

☐ 2" ☐ 4" ☐ 6" ☒ Other **3"**
☐ 1/2" ☐ 5/8" ☐ 3/4" ☐ 1"
☐ 0.25 ☒ 0.40 ☐ 0.50 ☐ 30 kg/m3 (1.87 pcf)
☒ CCA ☐ ACQ ☐ ACZA

QUALITY MARK

☐ Label ☐ Stamp ☒ Hammer
☒ Good ☐ Fair ☐ Poor

INSPECTION RESULTS

Penetration Requirement: **10mm & 85% sapwood**
 Number of Units Sampled: **all**
 Incised: ☒ Yes ☐ No
 Kiln Dried (AT): ☐ Yes ☒ No

PENETRATIONS

	Sap Depth	Pen (mm)	Pen %	Outer Veneer	Inner Veneer
1		34	100		
2		18	100		
3		24	100		
4		26	100		
5		27	100		
6		20	100		
7		15	100		
8	15	5	33		
9		13	100		
10		18	100		
11		24	100		
12		24	100		
13		5	100		
14		15	100		
15		35	100		
16		28	100		
17		15	100		
18		28	100		
19		26	100		
20		28	100		

Penetration Conformance Lumber / Posts

Cores Taken: **20** No. Pass: **18** Percent: **90**

Plywood

Outer Veneers: _____ No. Pass: _____ Percent: _____
 Inner Veneers: _____ No. Pass: _____ Percent: _____
 Total Veneers: _____ No. Pass: _____ Percent: _____

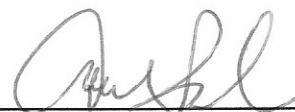
PENETRATION: ☒ PASS ☐ FAIL

Assay Conformance

CrO₃: **0.462** CuO: _____
 CuO: **0.161** Quat*: _____
 AS₂O₃: **0.335**
 Total: **0.96** Total: _____

* estimated

RETENTION: ☒ PASS ☐ FAIL



Inspector

Comments: **3x12 - 111/20'**

30

Tally

POSTED

Customer	Moist %	Rem 1
WELCO	0	
WELCO	0	



Canadian Softwood Inspection Agency, Inc.

TREATED WOOD INSPECTION REPORT

☐ Plant ☐ Destination ☒ Other

Date of Inspection: March 16, 2020

Client: Welco

Access by: _____

Location: Western Cleanwood, Surrey

Accompanied by: _____

ITEM

☒ Lumber Charge Number 3-111
☐ Timbers Standard Treated To UC4.1
☐ Plywood Species ☐ D Fir ☐ LPP
☐ Posts ☒ Hem-Fir

QUALITY MARK

☐ Label ☐ Stamp ☒ Hammer
☒ Good ☐ Fair ☐ Poor

PENETRATIONS

	Sap Depth	Pen (mm)	Pen %	Outer Veneer	Inner Veneer
1		18	100		
2		18	100		
3		24	100		
4		26	100		
5		15	100		
6		33	100		
7		16	100		
8		28	100		
9		26	100		
10		10	100		
11		13	100		
12		15	100		
13		16	100		
14		10	100		
15		25	100		
16		25	100		
17		19	100		
18		13	100		
19		13	100		
20		10	100		

CHARGE DETAILS

☐ 2" ☐ 4" ☐ 6" ☒ Other 3"
☐ 1/2" ☐ 5/8" ☐ 3/4" ☐ 1"
☐ 0.25 ☒ 0.40 ☐ 0.50 ☐ 30 kg/m3 (1.87 pcf)
☒ CCA ☐ ACQ ☐ ACZA

INSPECTION RESULTS

Penetration Requirement: 10mm & 85% sapwood
Number of Units Sampled: all
Incised: ☒ Yes ☐ No
Kiln Dried (AT): ☐ Yes ☒ No

Penetration Conformance Lumber / Posts

Cores Taken: 20 No. Pass: 20 Percent: 100

Plywood

Outer Veneers: _____ No. Pass: _____ Percent: _____
Inner Veneers: _____ No. Pass: _____ Percent: _____
Total Veneers: _____ No. Pass: _____ Percent: _____

PENETRATION: ☒ PASS ☐ FAIL

Assay Conformance

CrO₃: 0.413 CuO: _____
CuO: 0.155 Quat*: _____
AS₂O₃: 0.296
Total: 0.86 Total: _____

* estimated

RETENTION: ☒ PASS ☐ FAIL


Inspector

Comments: 3x12 - 120/20'

Charge

111

3-111

Plant: (1) Western Cleanwood Preservers Ltd.
9815 Robson Road
Surrey, B.C.
PH:604-585-2511
Fax: 604-585-1548

Treatment: Heavy Timbers - CCA
Date: 3/4/2020 8:01 AM
Preservative: CCA
Retention Target: 0.4
Cylinder: 1
Tank: 1
Operator: Wally [0]
Void (10700)

Total Time: 08:42
Change Out (min): 824.7
Change Out Reason: Board Ft: 7,200
Cubic Ft: 600
DV/In: 570
DV/Out: 633
Treat By: Tally
Gallons Start: 11,187
Gallons Finish: 9,837
Gallons Used: 1,350

Step	Time			Pressure			Injection			Retention			Flow Rate			Temp	Ramp	Time		Volume	Reason
	Min	Max	Act	Min	Max	Act	Min	Max	Act	Min	Max	Act	Min	Max	Act			Start	End		
Initial Vacuum	30	30	30	-22	-21	-21			0.00			0.000			0.0015	51		08:01:57	08:31:59	11,190	Time
Fill	10	3	3	-21	-15	-15			0.32			0.081			3.4100	51		08:31:59	08:35:14	4,041	PLC
Raise Press	15	2	2	75	77	77			0.86			0.219			0.2507	51		08:35:14	08:37:02	3,715	PSI
Pressure	420	420	420	150	150	150			2.80			0.712			0.0015	53		08:37:02	15:37:04	2,554	Time
Press Relief	10	9	9	13	7	7			2.74			0.699			0.0000	52	10	15:37:04	15:45:54	2,585	PSI
Empty	10	5	5		8	8			3.14			0.800			0.0000	52		15:45:54	15:50:48	9,304	PLC
Final Vacuum	45	45	45	-22	-21	-21			2.94			0.750			0.0000	53		15:50:48	16:35:50	9,422	Time
Final Empty	20	7	-1		0	0			2.30			0.585			0.0000	53		16:35:51	16:42:47	9,809	PLC
Finish	1	1	-1		0	0			2.25			0.573			0.0000	53		16:42:48	16:43:49	9,837	Time

PO 111

Automatic Mix Information										(from Tank 2)	
Chemical	Current	Target	As Mixed	Unit	Required	Actual	Difference	Transfer			
Water	8,954	11,200	11,190	Gals.	1,352.7	1,366.0	13.3	774.0			
CCA	2,0080 %	2,5000 %	2,5000 %	Gals.	93.3	93.0	-0.3	0.0			

Chemical Usage									
Type	Chemical	Solution	Start	Finish	Unit	Lbs/Gal	Lbs Used	Retention	
Active	CCA	2,5000 %	2,5000 %		Lbs (Active)	0.2548	344.03	344.03	0.5734

Material Information									
ItemCode	Description	Pieces	Packs/Size	BF	CF	Std	Mill	Retreat	Customer
1	HR312X20	120	5 @ 24	7,200	600				WELCO
									0

OXFORD LAB-X 2500
WOOD ANALYSIS

24/3/2020 9:12

Calibration title: SANDUST-pcf

SAMPLE ID: 3-111

DENSITY = 26.0 pcf

%WT OXIDES %BALANCE
CR03 = 1.587 % 47.8
CU0 = 0.598 % 18.0
AS205 = 1.138 % 34.2
TOTAL = 3.323 %WT 100.0

RETENTION

CR03 = 0.413 pcf
CU0 = 0.155 pcf
AS205 = 0.296 pcf
TOTAL = 0.864 pcf

OXFORD LAB-X 2500
WOOD ANALYSIS

24/3/2020 9:01

Calibration title: SANDUST-pcf

SAMPLE ID: 3-95

DENSITY = 26.0 pcf

%WT OXIDES %BALANCE
CR03 = 1.777 % 48.2
CU0 = 0.620 % 16.8
AS205 = 1.290 % 35.0
TOTAL = 3.687 %WT 100.0

RETENTION

CR03 = 0.462 pcf
CU0 = 0.161 pcf
AS205 = 0.395 pcf
TOTAL = 0.959 pcf

OXFORD LAB-X 2500
WOOD ANALYSIS

24/3/2020 9:05

Calibration title: SANDUST-pcf

SAMPLE ID: 3-79

DENSITY = 26.0 pcf

%WT OXIDES %BALANCE
CR03 = 1.803 % 48.7
CU0 = 0.616 % 16.6
AS205 = 1.286 % 34.7
TOTAL = 3.705 %WT 100.0

RETENTION

CR03 = 0.469 pcf
CU0 = 0.160 pcf
AS205 = 0.334 pcf
TOTAL = 0.963 pcf

OXFORD LAB-X 2500
WOOD ANALYSIS

24/3/2020 12:31

Calibration title: SANDUST-pcf

SAMPLE ID: 3-68

DENSITY = 26.0 pcf

%WT OXIDES %BALANCE
CR03 = 2.222 % 49.4
CU0 = 0.750 % 16.7
AS205 = 1.529 % 34.0
TOTAL = 4.501 %WT 100.0

RETENTION

CR03 = 0.578 pcf
CU0 = 0.195 pcf
AS205 = 0.397 pcf
TOTAL = 1.170 pcf
