

UAV at Alberta Pacific Forest Industries



Inventory Tracking

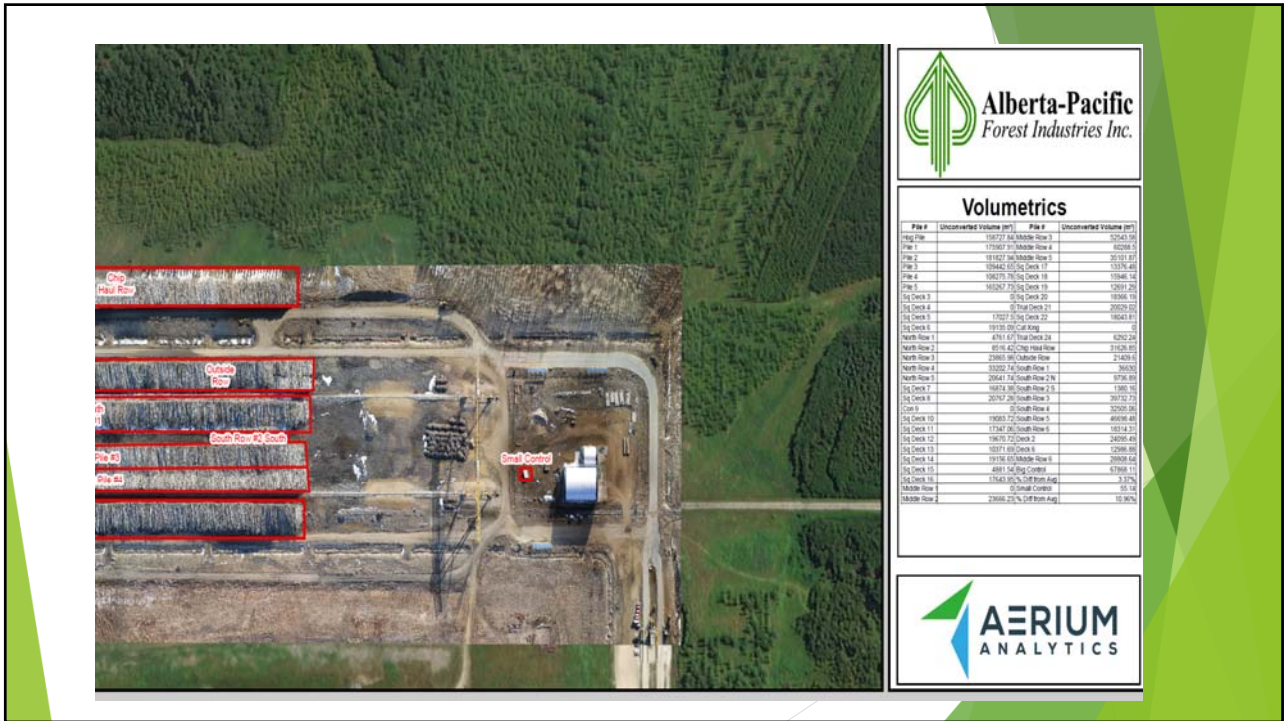
- ▶ Requirement to perform quarterly Fibre Inventory Surveys
- ▶ Current Survey Process is Ground Survey method
- ▶ Ground Survey is accurate but infringes on plant operations
- ▶ Ground survey is lengthy, 2-3 days to measure all fibre on site

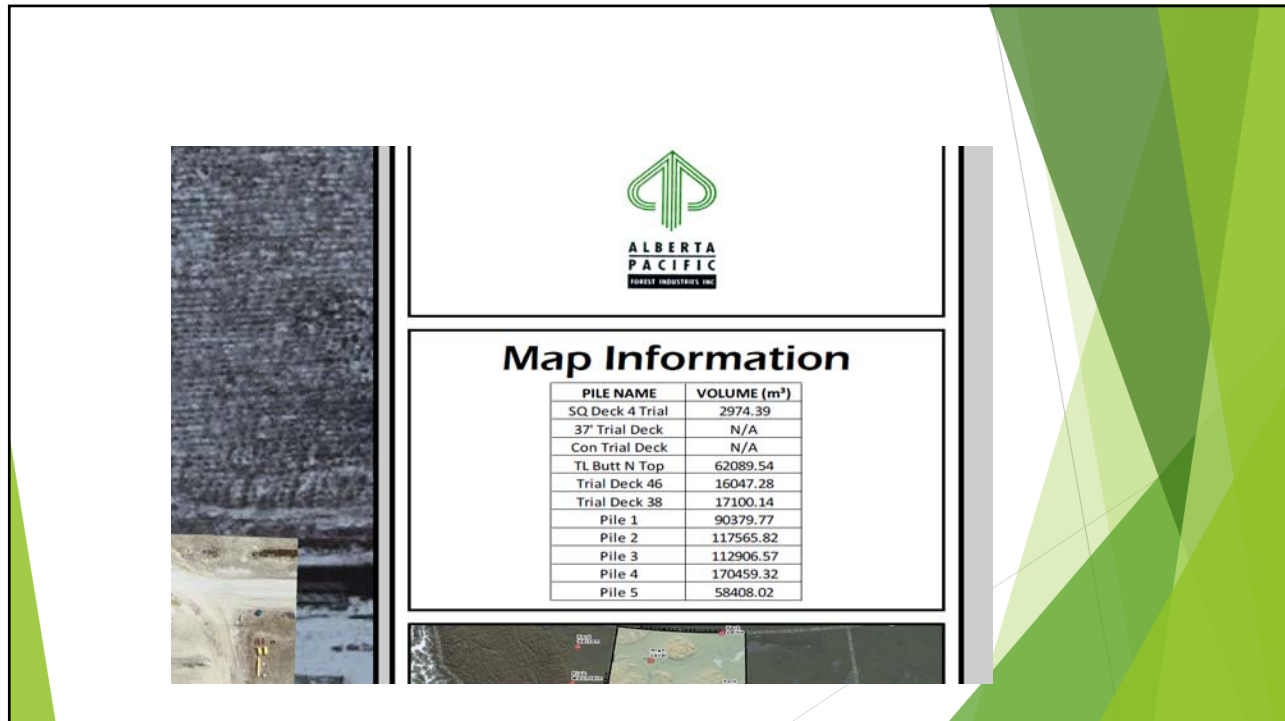
UAV a Possible Alternative Option??


- ▶ Approached by AERIUM Analytics in 2015
- ▶ Have since worked with them on a trial basis developing conversion data
- ▶ Comparisons to ground survey results>>>results do show a strong similarity
- ▶ Very happy with results to date

Benefits of UAV

- ▶ Although survey results are very comparable to ground survey the methodology justifies a change from ground to Aerial
- ▶ Survey time is much faster- 2-4 hours for all the fibre on site
- ▶ Does not infringe on plant operations
- ▶ Data exchange is timely and simple to decipher






**ALBERTA
PACIFIC**
FOREST INDUSTRIES INC.

Map Information

PILE NAME	VOLUME (m ³)
SQ Deck 4 Trial	2974.39
37' Trial Deck	N/A
Con Trial Deck	N/A
TL Butt N Top	62089.54
Trial Deck 46	16047.28
Trial Deck 38	17100.14
Pile 1	90379.77
Pile 2	117565.82
Pile 3	112906.57
Pile 4	170459.32
Pile 5	58408.02

Challenges To Date

- ▶ Weather- Extreme Cold, Wind, Precipitation and Fog causing delays to the surveys
- ▶ Consistency in measurements to trial decks- affecting conversion number data

Conclusion

- ▶ AI-Pac moving from ground survey method to UAV in the third quarter of 2019 (Millsite and Remote Yards)
- ▶ Looking at possible options in the future
- ▶ 1) Crane Inspections
- ▶ 2) Site Drainage

Questions??