

Ravensdown PGP Programme Quarterly Progress Report

Contract reporting period: October- December 2019

PSG Meeting Date: 14/2/20

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Summary of progress during this quarter

The spring 2019 validation remote sensing survey programme was completed during this quarter. The purpose of the validation surveys is to test the robustness of remote sensing soil fertility predictions against physical soil fertility tests. Based on these results, further testing of the remote sensing algorithms is now being planned for Autumn 2020. The programme achieved a key appointment in this area with a post doc appointment made aimed at improving current atmospheric corrections techniques employed in its airborne remote sensing algorithms.

The programme is also concentrating on the determining the appropriate mix of commercial service offerings that will be offered from mid-2020 on.

Fertiliser applications using leading edge variable rate equipped aircraft (Intellispread™) continues to grow with fertiliser applied using this technology applied to over 146,879 hectares of NZ hill country. This includes 6 variable rate nutrient applications using variable rate equipped aircraft based on fertiliser plans developed directly from hyperspectral remote sensing information.

Key highlights and achievements

- Completion of the spring 2019 validation survey programme.
- Commencement of a work programme aimed at streamlining the decision support software in preparation for commercial deployment.
- A key appointment of a post doc position aimed at improving current atmospheric corrections of airborne remote sensing.

Upcoming

- Planning of the Autumn 2020 validation programme.

Investment

<i>Investment period</i>	<i>Industry contribution</i>	<i>MPI contribution</i>	<i>Total investment</i>
<i>During this Quarter</i>	\$0.18m	\$0.16m	\$0.35m
<i>Programme To Date</i>	\$5.23m	\$5.13m	\$10.36m
