

December 15<sup>th</sup> 2017

**Seed collection of *P. spinescens* seed from Western Hwy site near Burnside Hub.**

Report written for Brett Lane & Associates

By Dr. Debbie Reynolds (Pimelea Consultant)

I was contacted in July, 2017 by Brett McDonald from Brett Lane and Associates to collect seed from an area of land along the Western Hwy near Burnside Hub shopping centre. I advised them over the phone that I would need the GPS co-ordinates for the site as I had never been there. I also advised them to locate the plants and remove all biomass around them ASAP as most of the site had had a high biomass load for many years. To obtain good numbers of seed from *P. spinescens* plants they need to be able to flower properly. Plants don't usually flower well when they have to compete with large biomass loads.

Brett McDonald and I allocated a day (29.08.2017) to carry out the seed collection of these plants, weather dependant. The GPS data of where the plants were would be provided by Brett McDonald to ensure that the plants could be found easily on the day.

**Day 1 in the field 29.08.2017**

We met Verity in the field on the allocated day and were told that the GPS data has not been acquired but a PDF of the plants locations was on her phone. She accessed the via GPS data via a PDF and the APP Aveno was used to locate as many plants as we could. Hard copies of the map were also provided to me prior to the day. The three of us spent the majority of the day searching for previously noted *P. spinescens* plants on these PDF maps. Many hours were spent looking for plants which we were unable to find but some were found.

In the end we located 46 *P. spinescens* plants across the site and 24 of them had seed which we placed bags on the plants to collect the seed later on in the season.

**Day 2 in the field 6.12.2017**

Another day by two workers was spent in the field removing the seed bags in early December. The site had not been mown as requested and all the plants were relocated as they had been GPSed when bagged up.

**Laboratory work 12.2017**

A day and a half was then spent going through the collected material to find and count the seed. In total 655 seed was collected (see Appendix 1).

**Recommendations**

If this site is likely to be intact next year (up until June) it could be recollected from, if the area is not mown from ~March. To get a greater quantity of seed from these plants I would advise to conduct a burn of the site in late Spring or early summer.

**Appendix 1**

Date	6.11.2017	GPS Data	Seed bags on	No of bags	Seed	
Plant No	Site	GPS Point			Collected ✓	No of seed
1	Western Hwy	W29	✓	4	✓	40
2	Western Hwy	W31	✓	1	✓	7
3	Western Hwy	W32	✓	1	✓	2
4	Western Hwy	O32	✓	1	✓	1
5	Western Hwy	W33	✓	3	✓	32
6	Western Hwy	O33	✓	1	✓	9
7	Western Hwy	W35	✓	3	✓	8
8	Western Hwy	W36	✓	1	✓	15
9	Western Hwy	O36	✓	4	✓	32
10	Western Hwy	W43	✓	2	✓	69
11	Western Hwy	O43	✓	1	✓	11
12	Western Hwy	O44	✓	3	✓	9
13	Western Hwy	O45	✓	1	✓	47
14	Western Hwy	O48	✓	2	✓	36
15	Western Hwy	O51	✓	1	✓	3
16	Western Hwy	O52	✓	3	✓	23
17	Western Hwy	O53	✓	3	✓	36
18	Western Hwy	O54	✓	2	✓	21
19	Western Hwy	O55	✓	3	✓	88
20	Western Hwy	O56	✓	2	✓	35
21	Western Hwy	O57	✓	2	✓	52
22	Western Hwy	O58	✓	2	✓	52
23	Western Hwy	O59	✓	1	✓	12
24	Western Hwy	O62	✓	1	✓	15
			Total Seed			655