

OUR REF: 4541 Gold Coast & Logan Office 76 Business Street Yatala QLD 4207

15 August 2014

Wayne DiBartolo c/- Pacific Reef Fisheries Lot 1 Trent Road ALVA 4807

Submitted via email: wayne@pacificreef.com.au

Dear Wayne,

RE: COMPLIANCE WITH CONDITION 11 OF COMMONWEALTH DECISION NOTICE EPBC 2001/402 IN RELATION TO ALVA BEACH AQUACULTURE EXPANSION

Property: LOT 1, TRENT ROAD, ALVA (LOT 1 ON RP804106)

Please find below a response to the following condition outlined in the abovementioned decision notice issued by the Commonwealth of Australia on 19th August, 2003.

11 Pacific Reef Fisheries (Australasia) Pty Ltd must ensure that an independent survey of channel cross sections of Little Alva Creek is conducted to the satisfaction of the Minister. This survey must include sediment composition analysis within the channel and in the depositional areas outside the channel to establish whether the ecosystem is being impacted by geomorphologic processes which may result from Aquaculture Waste discharge. A baseline survey is to be conducted prior to construction and further surveys are to be undertaken annually for 3 years following commencement of operations and a report submitted to the Minister within 3 months of each survey to allow an assessment of the impact of Aquaculture Waste discharge.

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Response

On the 9th and 10th April, 2014, an ecologist and two surveyors from Gassman Development Perspectives (GDP) undertook site work to fulfill the requirements of this condition. Three (3) locations within Little Alva Creek and one (1) location in the depositional areas outside of Little Alva Creek were selected as sites for this study. These locations are shown in Figure 1.

Level datum on AHD_{DER} was established on the site and horizontal control base to ensure future readings were observed in the same locations.

At each site, detailed cross sections of the channel were surveyed by licensed and appropriately qualified surveyors. The results of these cross sections are also illustrated in Figure 1.

This data will be retained and illustrated on all future surveys to ensure an accurate representation.

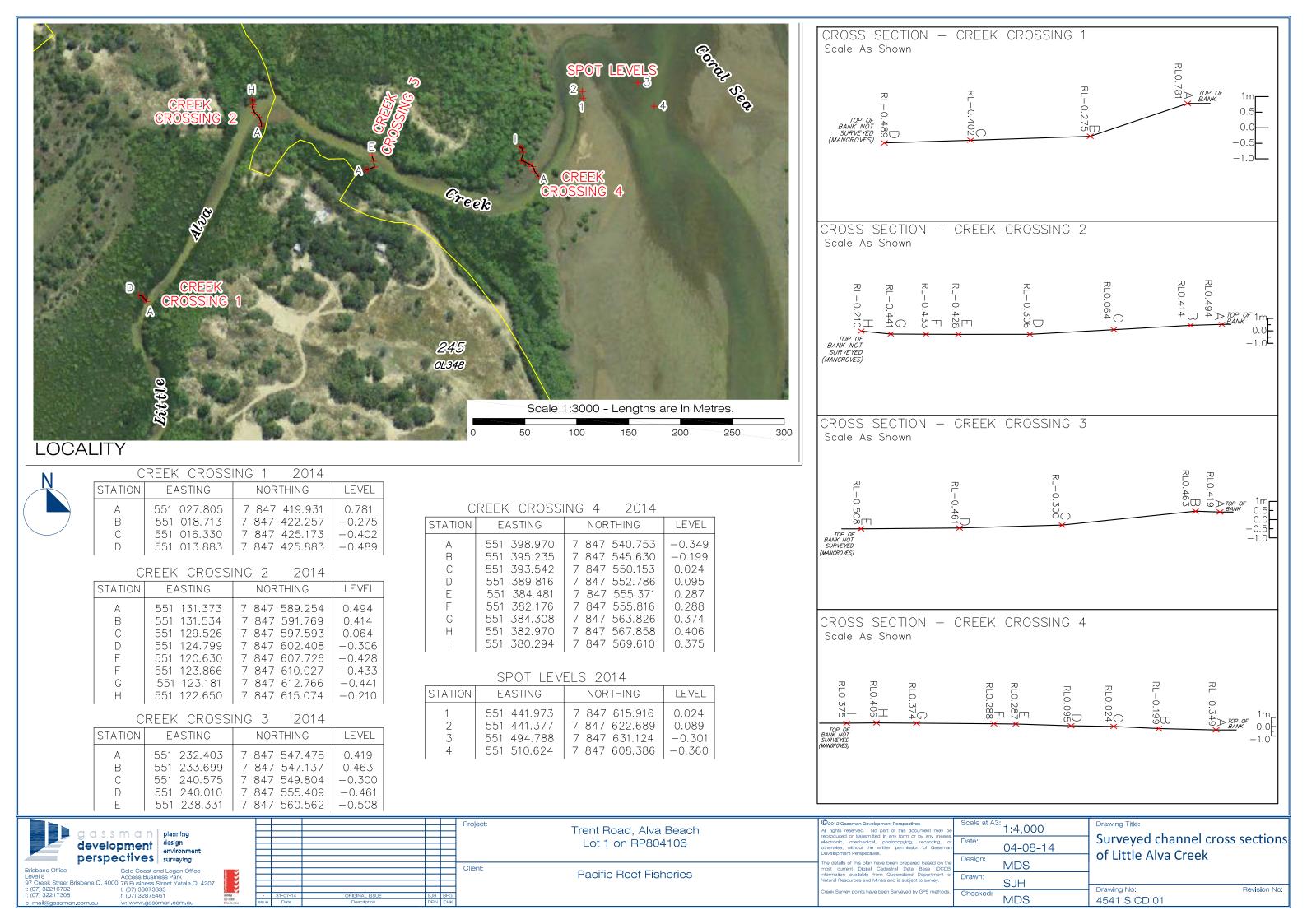
Additionally, at each of these corresponding sites three (3) samples of benthic sediments were collected from across the channel, one from close to each bank and one from the middle of the channel. These samples were collected and sent to Australian Laboratory Supplies (ALS) for a particle size distribution analysis. The average values of these analyses were calculated and graphed. The graph for all sites is included in Figure 2 and data included in Appendix 1.

The results of this study represent a baseline survey prior to construction. It is intended that further surveys in this format will be undertaken annually to ensure that no impacts to the Little Alva Creek system are attributable to the expansion of aquaculture operations at Pacific Reef Fisheries.

Yours faithfully, GASSMAN DEVELOPMENT PERSPECTIVES

M. Dears

MARK SPEARS



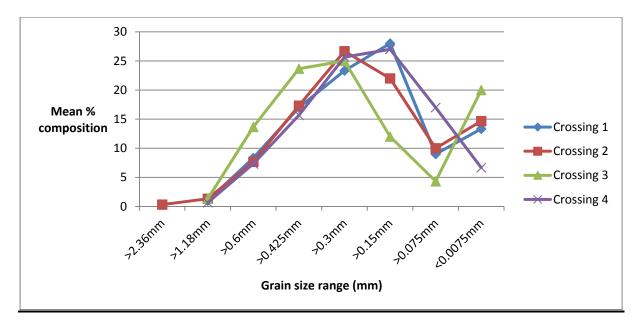


Figure 2 – Mean grain size distribution for creek crossings

Appendix 1 – Data used for particle size distribution

	Crossing 1a	Crossing 1b	Crossing 1c	Ave	Crossing 2a	Crossing 2b	Crossing 2c	Ave	Crossing	3a Crossing 3b	Crossing 3c	Ave	c
>2.36mm					0	0	1	0.333333333					
>1.18mm	0	1	2	1	0	2	2	1.3333333333		0 1	3	1.333333333	
>0.6mm	1	6	18	8.333333333	4	13	6	7.666666667		10 22	9	13.66666667	
>0.425mm	1	22	28	17	17	23	12	17.33333333		25 34	12	23.66666667	
>0.3mm	7	38	25	23.33333333	32	27	21	26.66666667		34 28	13	25	
>0.15mm	49	19	16	28	25	19	22	22		17 8	11	12	
>0.075mm	18	6	3	9	13	3	14	10		4 4	5	4.333333333	
<0.0075mm	24	8	8	13.33333333	9	13	22	14.66666667		10 3	47	20	
	100	100	100	100	100	100	100	100	1	00 100	100	100	
+75µm	94	97			93	90	91			98 98	98		
+150µm	90	94			54	60	60			97 97	97		
+300µm	64	69			28	32	31			74 66	76		
+425μm	37	42			13	14	14			39 27	44		
+600µm	17	19			4	4	4			10 7	15		
+1180µm	2	3			<1 <	×1 <	1		<1	<1	1		
+2.36mm	<1 <1	L			<1 <	<1 <	1		<1	<1	<1		<1

Crossing 4a	Crossing 4b	Crossing 4c	Crossing 4c Ave			
1	1	0	0.666666667			
8	8	6	7.333333333			
17	15	15	15.66666667			
28	23	26	25.66666667			
26	26	29	27			
16	17	18	17			
4	10	6	6.666666667			
100	100	100	100			
96	98	98				
95	96	97				
71	73	78				
37	38	45				
14	13	19				
2	1	2				
<1	. •	<1				