Appendix B
Table 2
Groundwater Analytical Results

	Inorganics	Metals							TRH - NEPM 2013						TRH - NEPM 1999					BTEX & MAH						PAH	Alkalinity		Major Ions					Nutrients		
	pH (Lab)	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	C6-C10 minus BTEX (F1)	C6 - C10 Fraction	>C10-C16 minus Naphthalene (F2)	>C10 - C16 Fraction	>C16 - C34 Fraction (F3)	>C34 - C40 Fraction (F4)	C6 - C9 Fraction	C10 - C14 Fraction	C15 - C28 Fraction	C29 - C36 Fraction	C10 - C36 (Sum of Total)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Alkalinity (Carbonate as CaCO3)	Bicarbonate Alkalinity as CaCO3	Calcium	Chloride	Magnesium	Potassium	Sodium	Ammonia as N	Nitrate (as N)	Sulphate as S
	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.1	0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.001	20	20	50	50	100	100	20	50	100	100	100	1	1	1	1	2	3	10	10	20	0.5	1	0.5	0.5	0.5	0.01	0.02	5
ADWG 2011 Health		**0.01**	**0.002**		**2**	**0.01**	**0.001**	**0.02**													**1**	**800**	**300**			**600**								**0.5**		
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand																																				
2-4m										6000		NL									5000	NL	NL			NL	NL									
4-8m										6000		NL									5000	NL	NL			NL	NL									
Environmental Trigger Value (RAP GHD, 2011)		*0.013*	*0.0121*		*0.07*	*1.18*		*0.55*	*0.4*																									*0.9*		
Site_ID	**Field_ID**	**Location_Code**	**Sampled_Date_Time**	**Sample_Type**																																
Yagoona Galvanising Plant	GG1	GG1	21/12/2015	Normal	4	<0.01	***0.21***	<0.01	<0.01	***2.3***	<0.0005	***1.1***	*2800*	<20	<20	<50	<50	<100	<100	<20	60	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	<10	<20	1700	31,000	2200	71	9000	***130***	<0.02	300
Yagoona Galvanising Plant	GG10	GG10	21/12/2015	Normal	3.3	<0.05	***0.53***	<0.05	***2.7***	***12***	<0.0005	***6.8***	*5000*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	1900	35,000	1800	77	16,000	***100***	<0.02	250
Yagoona Galvanising Plant	GG2	GG2	21/12/2015	Normal	3.7	<0.01	***0.11***	<0.01	*0.81*	***3.5***	<0.0005	***1.2***	*2300*	<20	<20	120	120	<100	<100	<20	160	100	<100	260	<1	<1	<1	<1	<2	<3	<10	<10	<20	920	20,000	1100	51	6200	***360***	0.37	270
Yagoona Galvanising Plant	GG5	GG5	21/12/2015	Normal	1.5	<0.1	***1.2***	15	***25***	***53***	<0.05	***13***	*20,000*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	4500	93,000	890	59	24,000	***900***	0.7	60
Yagoona Galvanising Plant	GG7	GG7	21/12/2015	Normal	8	0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.004	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	510	62	5100	450	16	3000	0.39	<0.02	240
Yagoona Galvanising Plant	GG8	GG8	21/12/2015	Normal	8.2	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	1000	120	4900	370	15	2600	0.23	<0.02	260
Yagoona Galvanising Plant	GG9	GG9	21/12/2015	Normal	5.2	<0.01	***0.11***	<0.01	<0.01	<0.01	<0.0005	***0.75***	*1400*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	28	910	20,000	1600	50	7600	***75***	<0.02	330
Yagoona Galvanising Plant	QA02	GG9	21/12/2015	Field_D	-	<0.01	***0.1***	<0.01	<0.01	<0.01	<0.0005	***0.76***	*1400*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	***75***	-	-
Yagoona Galvanising Plant	MW119	MW119	21/12/2015	Normal	7.8	<0.001	0.0002	<0.001	<0.001	0.002	<0.0001	***0.045***	*34*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	310	13	2600	80	12	1700	0.26	1.1	150
Yagoona Galvanising Plant	MW127	MW127	21/12/2015	Normal	8.1	<0.001	<0.0002	0.002	<0.001	<0.001	<0.0001	0.005	0.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	750	5.5	3500	150	7	2300	0.01	0.85	170
Yagoona Galvanising Plant	MW134D	MW134D	21/12/2015	Normal	3.1	<0.05	***0.95***	<0.05	***6.2***	***86***	<0.0005	***8.5***	*10,000*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	3500	52,000	2500	160	19,000	***1400***	6.2	180
Yagoona Galvanising Plant	MW134S	MW134S	21/12/2015	Normal	8.2	<0.001	0.0008	<0.001	0.002	<0.001	<0.0001	0.006	*0.95*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	640	110	4800	430	12	2400	0.3	2.4	260
Yagoona Galvanising Plant	MW135	MW135	21/12/2015	Normal	7.8	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.007	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	370	24	6300	410	12	3500	0.06	0.08	290
Yagoona Galvanising Plant	WS-MW5	WS-MW5	21/12/2015	Normal	7.5	<0.001	0.0007	<0.001	<0.001	<0.001	<0.0001	***0.094***	*8.8*	<20	<20	<50	<50	<100	<100	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	<10	460	240	9600	770	25	4500	***4***	0.03	300
Yagoona Galvanising Plant	WS-MW6	WS-MW6	21/12/2015	Normal	7.8	<0.001	<0.0002	<0.001	0.001	<0.001	<0.0001	0.004	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	420	71	3900	310	13	2100	0.31	0.03	120
Yagoona Galvanising Plant	WS-MW7	WS-MW7	21/12/2015	Normal	8.2	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	820	64	3500	280	11	2500	0.24	0.28	170
Yagoona Galvanising Plant	QA01	WS-MW8	21/12/2015	Field_D	-	<0.01	***0.16***	<0.01	<0.01	<0.01	<0.0005	***0.59***	*1300*	<20	<20	<50	<50	<100	<100	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	-	-	-	-	-	-	***48***	-	-
Yagoona Galvanising Plant	WS-MW8	WS-MW8	21/12/2015	Normal	4.9	<0.01	***0.14***	<0.01	<0.01	<0.01	<0.0005	***0.54***	*1200*	<20	<20	<50	<50	<100	<100	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	<10	<20	870	22,000	1900	43	7900	***44***	<0.02	300
Yagoona Galvanising Plant	WS-MW9	WS-MW9	21/12/2015	Normal	8.1	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	800	110	7900	540	12	3800	***0.56***	<0.02	260
Statistical Summary																																				
Number of Results		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Number of Detects		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Minimum Concentration		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Minimum Detect		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Maximum Concentration		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Maximum Detect		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Average Concentration		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Median Concentration		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Standard Deviation		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Number of Guideline Exceedances		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######
Number of Guideline Exceedances(Detects Only)		#NAME?	#NAME?	#NAME?	#######	#######	#######	#NAME?	#######	#######	######	####	#NAME?	####	####	####	####	####	####	####	######	#NAME?	#NAME?	####	####	#NAME?	#NAME?	######	######	######	#######	######	######	#######	######	######	######