				Inorganics	Metals								Field Parameters				
				pH (Lab)	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	DO (mg/L) (Field)	Electrical conductivity (field)	pH (Field)	Redox (Field)	Temperature (Field)
				pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	pH Units	mV	°C
EQL				0.1	0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.005					
Environmental Trigger Value (RAP GHD, 2011)					0.013	0.0121		0.07	1.18		0.55	0.4					
ADWG 2015 Health					0.01	0.002		2	0.01	0.001	0.02						
NEMP 2018 Drinking Water																	
NEMP 2018 Freshwater Ecological 95% species protection																	
NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand																	
2-4m																	
4-8m																	
Site ID	**Field ID**	**Location Code**	**Sampled Date Time**														
Yagoona Galvanising Plant	GG1	GG1	22/03/2018	4.7	<0.05	0.36	<0.05	1.1	50	<0.005	5.7	1200	0.32	42,886	4.43	260	26.3
Yagoona Galvanising Plant	QA01	GG1	22/03/2018	-	0.009	0.28	<0.001	0.63	52	<0.00005	3.7	2900	-	-	-	-	-
Yagoona Galvanising Plant	GG2	GG2	22/03/2018	-	<0.05	0.082	<0.05	0.24	3.1	<0.005	5.5	960	0.45	20,187	3.49	333.3	24.4
Yagoona Galvanising Plant	GG5	GG5	22/03/2018	1.7	<0.2	1.1	21	33	64	<0.02	21	13.000	0.31	119,481	1.25	492.7	24.2
Yagoona Galvanising Plant	GG7	GG7	22/03/2018	7.1	0.003	<0.0002	<0.001	0.007	0.009	<0.0001	0.008	0.044	0	19,056	6.03	-40.5	21.1
Yagoona Galvanising Plant	GG8	GG8	22/03/2018	7.2	0.003	<0.0002	<0.001	0.026	0.006	<0.0001	0.005	0.058	0.17	14,763	6.34	-87.3	22.3
Yagoona Galvanising Plant	GG9	GG9	22/03/2018	5.8	<0.01	0.074	<0.01	0.021	1.3	<0.001	0.99	510	0.32	19,692	5.14	99.6	24.8
Yagoona Galvanising Plant	MW127	MW127	22/03/2018	7.5	0.002	<0.0002	1.2	0.016	<0.001	<0.0001	0.005	0.13	4.16	1096	6.41	134.2	23.8
Yagoona Galvanising Plant	MW134D	MW134D	22/03/2018	4	0.19	0.79	<0.1	8.8	180	<0.01	15	9500	0.44	10,230	3.88	230.4	26.2
Yagoona Galvanising Plant	MW134S	MW134S	22/03/2018	7.4	0.003	0.0004	0.003	0.062	0.003	<0.0001	0.013	0.36	1.68	10,829	6.23	86.4	26.7
Yagoona Galvanising Plant	QA02	MW134S	22/03/2018	-	0.002	0.0003	0.002	0.007	<0.001	<0.0001	0.009	0.31	-	-	-	-	-
Yagoona Galvanising Plant	MW135	MW135	22/03/2018	6.8	0.003	<0.0002	<0.001	0.022	0.007	<0.0001	0.012	0.84	0	18,152	5.78	81.4	22.6

	TRH - NEPM 2013						TRH - NEPM 1999					BTEX						
	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-MAH
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	20	20	50	50	100	100	20	50	100	100	100	1	1	1	1	2	3	10
Environmental Trigger Value (RAP GHD, 2011)																		
ADWG 2015 Health												1	800	300			600	
NEMP 2018 Drinking Water																		
NEMP 2018 Freshwater Ecological 95% species protection																		
NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand																		
2-4m	6000#1		NL									5000	NL	NL			NL	NL
4-8m	6000#1		NL									5000	NL	NL			NL	NL
GG1	30	30	<50	<50	<100	<100	30	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10
QA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GG2	<20	<20	<50	<50	<100	<100	<20	<50	<100	<100	<100	1	<1	<1	<1	<2	<3	<10
GG5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GG7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GG8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GG9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW134D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW134S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA02	<20	<20	<50	<50	<100	<100	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10
MW135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	PFAS															
	PFOS/PFHxS (Sum of Total) - Lab Calc	N-Methyl perfluorooctane sulfonamidoethanol MeFOSA	N-Ethyl perfluorooctane sulfonamidoacetic acid	Perfluoroheptane sulfonic acid	10:2 Fluorotelomer sulfonic acid	4:2 Fluorotelomer sulfonic acid	Perfluorobutane sulfonic acid	N-Methyl perfluorooctane sulfonamidoacetic acid	Perfluorohexane sulfonic acid (PFHxS)	Perfluoropentanoic acid	8:2 Fluorotelomer sulfonic acid	N-Ethyl perfluorooctane sulfonamide	N-Ethyl perfluorooctane sulfonamidoethanol	N-Methyl perfluorooctane sulfonamide	6:2 Fluorotelomer Sulfonate (6:2 FTS)	Perfluorooctanoic acid (PFOA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.05	0.05	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.01
Environmental Trigger Value (RAP GHD, 2011)																
ADWG 2015 Health																
NEMP 2018 Drinking Water	0.07															0.56
NEMP 2018 Freshwater Ecological 95% species protection																220
NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand																
2-4m																
4-8m																
GG1	0.02	<0.05	<0.05	<0.01	<0.01	<0.01	0.06	<0.05	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01
QA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GG2	0.08	<0.05	<0.05	<0.01	<0.01	<0.01	0.07	<0.05	0.06#1	0.02	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01
GG5	0.15	<0.05	<0.05	<0.01	<0.01	<0.01	1.1	<0.05	0.07#1	0.04	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01
GG7	0.06	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05	0.01#1	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01
GG8	0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01
GG9	0.22	<0.05	<0.05	0.02#1	<0.01	<0.01	<0.01	<0.05	0.02#1	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01
MW127	2.81	<0.05	<0.05	0.21#1	<0.01	<0.01	<0.01	<0.05	0.11#1	0.01#1	<0.01	<0.05	<0.05	<0.05	<0.05	0.06#1
MW134D	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01
MW134S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW135	0.02	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.01

	PFAS															Acidity & Alkalinity	Major Ions						Nutrients		
	Perfluoropentane sulfonic acid	Perfluorobutanoic acid	Perfluorodecanoic acid	Perfluorodecane sulfonic acid	Perfluorododecanoic acid	Perfluoroheptanoic acid	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid	Perfluorooctane sulfonic acid (PFOS)	Perfluorooctane sulfonamide (FOSA)	Perfluorotetradecanoic acid	Perfluorotridecanoic acid	Perfluoroundecanoic acid	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Alkalinity (total as CaCO3)	Calcium	Chloride	Magnesium	Potassium	Sodium	Sulfate	Ammonia as N	Nitrate (as N)	Nitrite (as N)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.1	0.05	20	0.5	1	0.5	0.5	0.5	5	0.01	0.02	0.02
Environmental Trigger Value (RAP GHD, 2011)																							0.9		
ADWG 2015 Health																						500			
NEMP 2018 Drinking Water																									
NEMP 2018 Freshwater Ecological 95% species protection									0.13																
NEPM 2013 Table 1A(4) HSL D Comm/Ind GW for Vapour Intrusion, Sand																									
2-4m																									
4-8m																									
GG1	0.01#1	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02#1	<0.05	<0.01	<0.01	<0.01	<0.1	0.08	<20	1600	15.000	1500	100	7300	460	870	2.9	<0.02
QA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	730	-	-
GG2	0.03#1	<0.05	<0.01	<0.01	<0.01	<0.01	0.01#1	<0.01	0.02#1	<0.05	<0.01	<0.01	<0.01	0.21	0.18	-	640	4900	330	62	2100	840	0.18	0.03	<0.02
GG5	0.14#1	<0.05	<0.01	<0.01	<0.01	<0.01	0.02#1	<0.01	0.08#1	<0.05	<0.01	<0.01	<0.01	1.45	1.31	<20	7000	66.000	1100	76	13.000	150	700	1.4	0.21
GG7	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	0.02#1	<0.01	0.05#1	<0.05	<0.01	<0.01	<0.01	<0.1	0.08	550	87	5100	490	21	3400	870	0.13	<0.02	<0.02
GG8	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02#1	<0.05	<0.01	<0.01	<0.01	<0.1	<0.05	1100	150	3300	440	22	3500	830	0.19	<0.02	<0.02
GG9	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2#1	<0.05	<0.01	<0.01	<0.01	0.24	0.22	37	650	7800	1000	35	4000	500	62	<0.02	<0.02
MW127	<0.01	<0.05	<0.01	<0.01	<0.01	0.01#1	0.01#1	<0.01	2.7#1	<0.05	<0.01	<0.01	<0.01	3.11	2.9	180	5.7	180	27	<5	900	23	<0.01	3.2	<0.02
MW134D	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.1	<0.05	<20	6000	41,000	3200	300	14,000	430	3200	8.4	<0.2
MW134S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	920	67	2700	250	11	2000	610	<0.01	0.17	<0.02
QA02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-
MW135	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02#1	<0.05	<0.01	<0.01	<0.01	<0.1	<0.05	410	36	4800	490	19	4500	860	0.01	<0.02	<0.02

Env Stds Comments

#1:To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.

#2:To obtain F2 subtract napthalene from the >C10 - C16 fraction.

Data Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.