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)	>C10 - C40 (Sum of Total) - Calc	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)	Alkalinity (Bicarbonate Alkalinity as CaCO3	Calcium	Chloride	Magnesium	Potassium	Sodium	Sulphate	Ammonia as N	Nitrate (as N)	Nitrite (as N)
				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	ug/L	mg/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	5	0.01	0.02	0.02
ADWG 2011 Health					**0.01**	**0.002**		**2**	**0.01**	**0.001**	**0.02**														**1**	**800**	**300**			**600**									**500**			
Environmental Trigger Value (RAP GHD, 2011)					*0.013*	*0.0121*		*0.07*	*1.18*	*0.00006*	*0.55*	*0.4*																											*0.9*		
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Sand																																									
2-4m													6000[#1]		NL[#2]										5000	NL	NL			NL	NL										
4-8m													6000[#1]		NL[#2]										5000	NL	NL			NL	NL										
SampleCode	**Field_ID**	**Location_Code**	**Sampled_Date**																																							
S16-Se22026	GG1	GG1	22-Sep-16	4.1	***0.015***	***0.31***	<0.01	*0.75*	***48***	<0.001	***4.1***	*3700*	<20	<20	2700	2700	1900	<100	4600[#1]	<20	1400	3100	<100	4500	<1	<1	<1	<1	<2	<3	<10	<10	<20	1600	30,000	1600	86	4700	**900**	*860*	0.76	0.03
S16-Se22043	QA01	GG1	22-Sep-16	-	***0.014***	***0.31***	<0.01	*0.92*	***40***	<0.001	***4***	*2800*	<20	<20	<50	<50	<100	<100	0[#1]	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	-	-	-	-	-	-	-	-	*820*	-	-
S16-Se22042	GG10	GG10	22-Sep-16	3.9	***0.024***	***0.3***	<0.01	*1.7*	***16***	<0.001	***4.8***	*1600*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	1500	33,000	1300	72	3900	**720**	*110*	<2	1.5
S16-Se22027	GG2	GG2	22-Sep-16	4.1	0.006	***0.055***	<0.005	*0.11*	***1.7***	<0.0005	***1.9***	*550*	<20	<20	1200	1200	800	<100	2000[#1]	<20	730	1300	<100	2030	1	2	<1	<1	<2	<3	<10	<10	<20	400	7700	580	42	2400	**830**	*220*	2.3	0.02
S16-Se22028	GG5	GG5	22-Sep-16	1.5	***0.065***	***0.74***	14	***16***	***69***	***0.0046***	***11***	*12,000*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	2900	100,000	340	36	3800	400	*830*	<2	<2
S16-Se22029	GG7	GG7	22-Sep-16	6.8	<0.01	<0.002	<0.01	<0.01	<0.01	<0.001	<0.01	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	620	93	7300	540	21	3400	**950**	0.25	<0.02	<0.02
S16-Se22030	GG8	GG8	22-Sep-16	7.5	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.001	0.006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	810	40	2100	120	11	1200	270	*2.7*	<0.02	<0.02
S16-Se22041	GG9	GG9	22-Sep-16	6.7	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	**0.042**	*5.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	210	37	1400	56	10	750	120	*8.2*	<0.02	<0.02
S16-Se22031	MW119	MW119	22-Sep-16	7.4	<0.001	0.0002	<0.001	0.006	0.005	<0.0001	**0.023**	*13*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	340	12	2500	76	12	1700	380	0.16	0.52	<0.02
S16-Se22032	MW127	MW127	22-Sep-16	7.2	<0.001	<0.0002	<0.001	0.004	<0.001	<0.0001	0.01	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	770	7.4	3700	180	8.1	2500	**720**	0.02	0.05	<0.02
S16-Se22034	MW134D	MW134D	22-Sep-16	3.9	***0.02***	***0.48***	0.14	*0.15*	***13***	<0.001	***6.1***	*4200*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	<20	2600	42,000	1900	130	4600	**620**	*1100*	6.5	<2
S16-Se22033	MW134S	MW134S	22-Sep-16	7	<0.001	0.0006	<0.001	0.007	<0.001	<0.0001	0.01	*0.84*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	890	56	2900	230	12	1700	280	0.1	0.88	<0.02
S16-Se22035	MW135	MW135	22-Sep-16	6.5	<0.001	<0.0002	<0.001	0.003	<0.001	<0.0001	0.009	*0.51*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	320	21	6000	340	13	2900	**780**	0.11	0.19	<0.02
S16-Se22036	WS-MW5	WS-MW5	22-Sep-16	6.5	<0.005	<0.001	<0.005	<0.005	<0.005	<0.0005	**0.14**	*13*	<20	<20	<50	<50	<100	<100	0[#1]	<20	<50	<100	<100	<100	<1	2	<1	<1	<2	<3	<10	<10	370	240	8800	680	29	4000	**940**	*3.6*	<0.02	<0.02
S16-Se22037	WS-MW6	WS-MW6	22-Sep-16	7.5	<0.001	<0.0002	<0.001	0.002	<0.001	<0.0001	0.003	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	460	78	4700	360	18	2300	420	0.15	0.17	<0.02
S16-Se22038	WS-MW7	WS-MW7	22-Sep-16	7.3	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	990	110	5600	420	22	3000	**750**	0.56	0.11	<0.02
S16-Se22039	WS-MW8	WS-MW8	22-Sep-16	5.6	<0.005	***0.051***	<0.005	<0.005	<0.005	<0.0005	***0.77***	*650*	<20	<20	<50	<50	<100	<100	0[#1]	<20	<50	<100	<100	<100	<1	1	<1	<1	<2	<3	<10	<10	48	560	17,000	1300	48	5900	**1000**	*38*	<0.2	0.25
S16-Se22044	QA02	WS-MW8	22-Sep-16	-	<0.005	***0.055***	<0.005	<0.005	**0.068**	<0.0005	***0.82***	*620*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*40*	-	-
S16-Se22040	WS-MW9	WS-MW9	22-Sep-16	7.4	<0.005	<0.001	<0.005	<0.005	<0.005	<0.0005	<0.005	0.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<10	780	110	7600	490	20	3700	**830**	0.61	<0.02	<0.02
Statistical Summary																																									
Number of Results				17	19	19	19	19	19	19	19	19	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	17	17	17	17	17	17	17	17	19	17	17
Number of Detects				17	6	10	2	11	8	1	16	19	0	0	2	2	2	0	5	0	2	2	0	2	1	3	0	0	0	0	0	0	12	17	17	17	17	17	19	9	4
Minimum Concentration				1.5	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	<0.001	0.006	<20	<20	<50	<50	<100	<100	<0	<20	<50	<100	<100	<100	<1	<1	<1	<1	<2	<3	<10	<10	<20	7.4	1400	56	8.1	750	120	0.02	<0.02	<0.02
Minimum Detect				1.5	0.006	0.0002	0.14	0.002	0.005	0.0046	0.001	0.006	ND	ND	1200	1200	800	ND	2000	ND	730	1300	ND	2030	1	1	ND	ND	ND	ND	ND	ND	48	7.4	1400	56	8.1	750	120	0.02	0.05	0.02
Maximum Concentration				7.5	0.065	0.74	14	16	69	0.0046	11	12000	<20	<20	2700	2700	1900	<100	4600	<20	1400	3100	<100	4500	1	2	<1	<1	<2	<3	<10	<10	990	2900	100000	1900	130	5900	1000	1100	6.5	<2
Maximum Detect				7.5	0.065	0.74	14	16	69	0.0046	11	12000	ND	ND	2700	2700	1900	ND	4600	ND	1400	3100	ND	4500	1	2	ND	ND	ND	ND	ND	ND	990	2900	100000	1900	130	5900	1000	1100	6.5	1.5
Average Concentration				5.9	0.0086	0.12	0.75	1	9.9	0.00046	1.8	1377	10	10	795	795	570	50	1320	10	441	910	50	1336	0.6	1.2	0.5	0.5	1	1.5	5	5	392	610	16606	618	35	3085	642	212	0.8	0.23
Median Concentration				6.7	0.0025	0.0006	0.0025	0.004	0.0025	0.00025	0.042	13	10	10	25	25	50	50	0	10	25	50	50	50	0.5	1	0.5	0.5	1	1.5	5	5	340	110	7300	420	21	3000	720	3.6	0.17	0.01
Standard Deviation				1.8	0.015	0.21	3.2	3.7	20	0.001	3	2895	0	0	1180	1180	811	0	2028	0	617	1339	0	1966	0.22	0.76	0	0	0	0	0	0	355	943	24655	560	33	1361	275	374	1.6	0.46
Number of Guideline Exceedances				0	5	8	0	6	7	19	11	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	0	0
Number of Guideline Exceedances(Detects Only)				0	5	8	0	6	7	1	11	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	0	0

Env Stds Description
ADWG 2011 Health:Version 3.1 Updated March 2015

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 ESDAT Combined with Non-Detect Multiplier of 0