

Onetseel Mayfield Site License 11149
 2015 - Annual Groundwater Monitoring Summary of Results
 Samples taken During June and Reported September 2015.

Location				E5	M1/2C	M1/2S	M7/2	M8/2	M8/5	M8/9	E13	E6	F12	F3	M2/1W	M6/1	M8/1EE	W3E	W3F	W4F	W5F	W6E	W6F	W7E	W7F	W8/E	W8/F	M9/4	W9E	E7	F4A	F6	F7	E12	E2A	E3A	E4		
EPA Identifier				22	33	34	35	38	36	37	9	8	18	17	29	32	26	3	10	11	12	4	13	5	14	6	15	7	31	23	25	30	24	27	19	20	21		
Field Parameters				Units	PQL	Site Criteria*																																	
pH				-	n/a	n/a																																	
Electrical Conductivity				µs/cm	n/a	n/a																																	
Dissolved Oxygen				ppm	n/a	n/a																																	
Reduction Potential				mV	n/a	n/a																																	
Temperature				°C	n/a	n/a																																	
Salinity				ppt	n/a	n/a																																	
Turbidity				NTU	n/a	n/a																																	
Analytes																																							
Total Cyanide				mg/L	0.004	7	n/a																																
Dissolved Zinc				µg/L	1	23	n/a																																
TRH C ₆ - C ₉				µg/L	10	-	n/a																																
TRH C ₆ - C ₁₀				µg/L	10	-	n/a																																
TRH C ₆ - C ₁₀ less BTEX (F1)				µg/L	10	-	n/a																																
Benzene				µg/L	1	900	n/a																																
Toluene				µg/L	1	230 ¹	n/a																																
Ethylbenzene				µg/L	1	110 ¹	n/a																																
m-p-xylene				µg/L	2	275 ^{1b}	n/a																																
o-xylene				µg/L	1	350 ^{1b}	n/a																																
Naphthalene				µg/L	1	90	n/a																																
TRH C ₁₀ - C ₁₄				µg/L	50	-	n/a																																
TRH C ₁₅ - C ₂₈				µg/L	100	-	n/a																																
TRH C ₂₉ - C ₃₆				µg/L	100	-	n/a																																
TRH >C ₁₀ - C ₁₆				µg/L	50	-	n/a																																
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)				µg/L	50	-	n/a																																
TRH >C ₁₀ - C ₃₄				µg/L	100	-	n/a																																
TRH >C ₃₄ - C ₄₀				µg/L	100	-	n/a																																
Total TRH C ₆ - C ₃₆				µg/L	-	260 ^a	n/a																																
Naphthalene				µg/L	1	90	n/a																																
Acenaphthylene				µg/L	1	-	n/a																																
Acenaphthene				µg/L	1	-	n/a																																
Fluorene				µg/L	1	-	n/a																																
Phenanthrene				µg/L	1	-	n/a																																
Anthracene				µg/L	1	1.5 ¹	n/a																																
Fluoranthene				µg/L	1	1.7 ¹	n/a																																
Pyrene				µg/L	1	-	n/a																																
Benzo(a)anthracene				µg/L	1	-	n/a																																
Chrysene				µg/L	1	-	n/a																																
Benzo(b+k)fluoranthene				µg/L	2	-	n/a																																
Benzo(a)pyrene				µg/L	1	-	n/a																																
Indeno(1,2,3-c,d)pyrene				µg/L	1	-	n/a																																
Dibenzo(a,h)anthracene				µg/L	1	-	n/a																																
Benzo(g,h,i)perylene				µg/L	1	-	n/a																																
Benzo(a)pyrene TEQ				µg/L	5	0.4 ¹	n/a																																
Total +ve PAH's				µg/L	1	-	n/a																																
Ammonia as N in water				mg/L	0.005	910 ^d	n/a																																
Phenol				µg/L	1	520	n/a																																
2-Chlorophenol				µg/L	1	-	n/a																																
4-Chloro-3-Methylphenol				µg/L	5	-	n/a																																
2-Methylphenol				µg/L	1	-	n/a																																
3/4-Methylphenol				µg/L	2	-	n/a																																
2-Nitrophenol				µg/L	1	2 ^{1bc}	n/a																																
2,4-Dimethylphenol				µg/L	1	2 ^{1bc}	n/a																																
2,4-Dichlorophenol				µg/L	1	-	n/a																																
2,6-Dichlorophenol				µg/L	1	-	n/a																																
2,4,6-Trichlorophenol				µg/L	1	-	n/a																																
2,4,5-Trichlorophenol				µg/L	1	4 ¹	n/a																																
2,4-Dinitrophenol				µg/L	10	-	n/a																																
4-Nitrophenol				µg/L	20	58 ^{1bc}	n/a																																
2,3,4,6-Tetrachlorophenol				µg/L	1	-	n/a																																
2-methyl-4,6-dinitrophenol				µg/L	10	-	n/a																																
Pentachlorophenol				µg/L	5	-	n/a																																

* Australian and New Zealand Environment Conservation Council (ANZECC) 90% Marine Water Quality Guideline Value - for highly disturbed systems
¹ (ANZECC) Based on a low reliability trigger value
² (ANZECC) Trigger value of 7µg/L is below laboratory detection level. The PQL of C6-C36 (260µg/L) has been adopted as the criteria value.
³ (ANZECC) Freshwater figure adopted for marine environment in the absence of reliable marine data
⁴ (ANZECC) Indicative interim working level that may be used until further data becomes available
⁵ (ANZECC) 95% Marine Water Quality Guideline Value adopted from Table 8.3.7 based on a pH of 8 - for slightly to moderately disturbed systems