



**Table 3:  
Groundwater Analytical Results**

	Sample Type:	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
		M8/9	M8/5	M9/4	W9E	M8/2	E6					
<b>Ecological Scoring Criteria (95% Protection Marine)<sup>c</sup></b>	<b>Sample ID:</b>											
	<b>EPL ID:</b>											
	<b>Lab ID:</b>	N24-App046377	N24-App046378	N24-App046379	N24-App046380	N24-App047263	N24-App047264					
	<b>Sample Date:</b>	17/04/2024	17/04/2024	17/04/2024	17/04/2024	17/04/2024	17/04/2024					
	<b>Project Name:</b>	2024 EPL Annual GME	2024 EPL Annual GME	2024 EPL Annual GME	2024 EPL Annual GME	2024 EPL Annual GME	2024 EPL Annual GME					
	<b>Project No:</b>	318001994	318001994	318001994	318001994	318001994	318001994					
	<b>Sample Location:</b>	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus					
<b>Sampling Method:</b>	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump						
<b>Sample Description:</b>												
<b>Analyte grouping/Analyte</b>	<b>Units</b>	<b>LOR</b>										
<b>Inorganics</b>												
Ammonia (as N)	910	µg/L	10	-	-	-	-	-	-	-	-	
Ammonia (as NH3)	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (free)	4	µg/L	4	-	-	-	-	-	-	-	-	
<b>Total Metals</b>												
Cadmium	5.5	µg/L	0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	
Chromium	-	µg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	
Chromium (VI)	4.4	µg/L	5	-	-	-	-	-	-	-	-	
Copper	1.3	µg/L	1	21	9	15	<1	3	<1	<1	<1	
<b>Dissolved Metals</b>												
Lead (filtered)	4.4	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	
Manganese (filtered)	80	µg/L	1	47	70	58	41	1900	370	370	370	
Mercury (filtered)	0.4	µg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Zinc (filtered)	15	µg/L	5	<5	<5	<5	910	<5	<5	<5	<5	
<b>Phenols (Halogenated)</b>												
2,4,5-Trichlorophenol	-	µg/L	10	-	-	-	-	<10	-	-	-	
2,4,6-Trichlorophenol	-	µg/L	10	-	-	-	-	<10	-	-	-	
2,4-Dichlorophenol	-	µg/L	3	-	-	-	-	<3	-	-	-	
2,6-Dichlorophenol	-	µg/L	3	-	-	-	-	<3	-	-	-	
2-Chlorophenol	-	µg/L	3	-	-	-	-	<3	-	-	-	
4-Chloro-3-methylphenol	-	µg/L	10	-	-	-	-	<10	-	-	-	
Pentachlorophenol	-	µg/L	10	-	-	-	-	<10	-	-	-	
Tetrachlorophenols - Total	22	µg/L	30	-	-	-	-	<30	-	-	-	
Total Halogenated Phenol*	-	µg/L	10	-	-	-	-	<10	-	-	-	
<b>Phenols (non-Halogenated)</b>												
2,4-Dimethylphenol	-	µg/L	0.05	-	-	-	-	7	-	-	-	
2,4-Dinitrophenol	-	µg/L	30	-	-	-	-	<30	-	-	-	
2-Cyclohexyl-4,6-dinitrophenol	-	µg/L	100	-	-	-	-	<100	-	-	-	
2-Methyl-4,6-dinitrophenol	-	µg/L	30	-	-	-	-	<30	-	-	-	
2-Methylphenol (o-Cresol)	-	µg/L	3	-	-	-	-	<3	-	-	-	
2-Nitrophenol	-	µg/L	10	-	-	-	-	<10	-	-	-	
3,8,4-Methylphenol (m&p-Cresol)	-	µg/L	6	-	-	-	-	<6	-	-	-	
4-Nitrophenol	-	µg/L	30	-	-	-	-	<30	-	-	-	
Dinoseb	-	µg/L	100	-	-	-	-	<100	-	-	-	
Phenol	400	µg/L	3	-	-	-	-	<3	-	-	-	
Total Non-Halogenated Phenol*	-	µg/L	100	-	-	-	-	<100	-	-	-	
<b>Polycyclic Aromatic Hydrocarbons (low level)</b>												
Acenaphthene	-	µg/L	1	<1	<1	-	<1	13	-	-	-	
Acenaphthylene	-	µg/L	1	<1	<1	-	<1	1	-	-	-	
Anthracene	0.4	µg/L	1	<1	<1	-	<1	1	-	-	-	
Benzo(a)anthracene	-	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Benzo(a)pyrene	0.2	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Benzo(b)fluoranthene	-	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Benzo(g,h,i)perylene	-	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Benzo(k)fluoranthene	-	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Chrysene	-	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Dibenz(a,h)anthracene	-	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Fluoranthene	1.4	µg/L	1	1	<1	-	<1	<1	-	-	-	
Fluorene	-	µg/L	30	-	-	-	<1	2	-	-	-	
Indeno(1,2,3-cd)pyrene	-	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Naphthalene	70	µg/L	1	<1	<1	-	<1	4	-	-	-	
Phenanthrene	2	µg/L	1	<1	<1	-	<1	<1	-	-	-	
Pyrene	-	µg/L	1	1	<1	-	<1	<1	-	-	-	
Total PAH*	-	µg/L	3	1	<1	-	<1	21	-	-	-	
<b>Total Recoverable Hydrocarbons - 1999 NEPM Fractions</b>												
TRH C10-C14	-	µg/L	50	-	-	<50	<50	<50	<50	<50	<50	
TRH C10-36 (Total)	-	µg/L	100	-	-	<100	<100	300	<100	<100	<100	
TRH C15-C28	-	µg/L	100	-	-	<100	<100	300	<100	<100	<100	
TRH C29-C36	-	µg/L	100	-	-	<100	<100	<100	<100	<100	<100	
TRH C6-C9	-	µg/L	20	-	-	<20	<20	<20	<20	<20	<20	
<b>Total Recoverable Hydrocarbons - 2013 NEPM Fractions</b>												
Naphthalene	70	µg/L	10	-	-	<10	<10	<10	<10	<10	<10	
TRH >C10-C16	600	µg/L	50	-	-	<50	<50	110	<50	<50	<50	
TRH >C10-C16 less Naphthalene (F2)	-	µg/L	50	-	-	<50	<50	110	<50	<50	<50	
TRH >C10-C40 (total)*	-	µg/L	100	-	-	<100	<100	310	<100	<100	<100	
TRH >C16-C34	600	µg/L	100	-	-	<100	<100	200	<100	<100	<100	
TRH >C34-C40	600	µg/L	100	-	-	<100	<100	<100	<100	<100	<100	
TRH C6-C10	600	µg/L	20	-	-	<20	<20	<20	<20	<20	<20	
TRH C6-C10 less BTX (F1)	-	µg/L	20	-	-	<20	<20	<20	<20	<20	<20	
<b>BTX</b>												
Benzene	700	µg/L	1	-	-	-	-	-	-	-	-	
Toluene	180	µg/L	1	-	-	-	-	-	-	-	-	
Ethylbenzene	80	µg/L	1	-	-	-	-	-	-	-	-	
m&p-Xylenes	75	µg/L	2	-	-	-	-	-	-	-	-	
o-Xylene	-	µg/L	1	-	-	-	-	-	-	-	-	
Xylenes (total)	-	µg/L	3	-	-	-	-	-	-	-	-	

Blank Cell indicates no criterion available  
 All results are in µg/L unless stated  
 LOR = Limit of Reporting  
 Concentrations below the LOR noted as <value  
 NOC = No observed contamination  
<sup>c</sup> Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2018)  
 Concentration in grey box exceed the adopted ecological guideline value  
 Concentrations in light blue indicate the LOR is greater than the guideline value  
 Bolded values indicate duplicate sample results reported in the assessment due to RPD criteria exceedances