InfraBuild Mayfield Site: Licence 11149.
2021 Annual Groundwater Monitoring Summary.
Industrial Drive, Mayfield, NSW, 2304.
Link to Licence:
https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers

Groundwater Analytical Results

		Sample Type:		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
		Sample ID:		W3E	W6E	W7E	W8E	W3F	W6F	W7F	W8F	F12	M2/1W	M9/4	E6	F3	E5	E7	F4A	M8/1EE	M7/2	M8/5	M8/9	M8/2	E2A	E3A	F7	W9E	M1/2C
		EPL ID:		3	4	5	6	10	13	14	15	18	29	7	8	17	22	23	25	26	35	36	37	38	19	20	24	31	33
		Lab ID:		N21-Ap00645	N21-Ap00646	N21-Ap00647	N21-Ap00648	N21-Ap00649	N21-Ap00650	N21-Ap00651	N21-Ap00652	N21-Ap00653	N21-Ap00654	N21-Ap00655	N21-Ap00656	N21-Ap00657	N21-Ap00658	N21-Ap00659	N21-Ap00660	N21-Ap00661	N21-Ap00662	N21-Ap00663	N21-Ap00664	N21-Ap00665	N21-Ap00666	N21-Ap00667	N21-Ap00668	N21-Ap00669	N21-Ap00670
		Sample Date:		29/03/2021	29/03/2021	29/03/2021	29/03/2021	29/03/2021	29/03/2021	29/03/2021	29/03/2021	29/03/2021	29/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021	30/03/2021	31/03/2021	31/03/2021	31/03/2021	31/03/2021	31/03/2021
	Ecological Sceening Criteria (95% Protection Marine)[c]	**Project Name:**		2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME	2021 EPL Annual GME
		Project No:		318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148	318001148
		Sample Location		InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus	InfraBuild Wire Mayfield Campus
		Sampling Method:		Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump	Low Flow Peristaltic Pump
		Sample Description:																											
Analyte grouping/Analyte		**Units**	**LOR**																										
Inorganics																													
Ammonia (as N)	910	µg/L	10			4600	2500		4600	16000	770	1500					16000												
Cyanide (free)	4	µg/L	4																		< 4								
Total Metals																													
Cadmium	5.5	µg/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (VI)	4.4	µg/L	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	400	< 5	< 5	< 5	< 5	< 5		< 5	< 5
Copper	1.3	µg/L	1	< 1	1	< 1	6	5	< 1	< 1	4		3	14	1	< 1	2	< 1	13	< 1	2	9	21	< 1	< 1	33	13	< 1	46
Dissolved Metals																													
Lead (filtered)	4.4	µg/L	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Manganese (filtered)	80	µg/L	1	150	150	2200	48	8	< 5	< 5	53		130	7	410	1100	730	260	20	40	< 5	27	25	1800	2600	380	140	59	1600
Mercury (filtered)	0.4	µg/L	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 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	6	< 5	< 5	6	< 5		< 5	7	< 5	< 5	< 5	< 5	20	< 5	< 5	< 5	< 5	8	< 5	8	27	1700	8
Phenols (Halogenated)																													
2.4.5-Trichlorophenol	-	µg/L	10													< 10								< 10					
2.4.6-Trichlorophenol	-	µg/L	10													< 10								< 10					
2.4-Dichlorophenol	-	µg/L	3													< 3								< 3					
2.6-Dichlorophenol	-	µg/L	3													< 3								< 3					
2-Chlorophenol	-	µg/L	3													< 3								< 3					
4-Chloro-3-methylphenol	-	µg/L	10													< 10								< 10					
Pentachlorophenol	22	µg/L	10													< 10								< 10					
Tetrachlorophenols - Total	-	µg/L	30													< 30								< 30					
Total Halogenated Phenol*	-	µg/L	10													< 10								< 10					
Phenols (non-Halogenated)																													
2.4-Dimethylphenol	-	µg/L	0.05													7.8								< 0.05					
2.4-Dinitrophenol	-	µg/L	30													< 30								< 30					
2-Cyclohexyl-4.6-dinitrophenol	-	µg/L	100													< 100								< 100					
2-Methyl-4.6-dinitrophenol	-	µg/L	30													< 30								< 30					
2-Methylphenol (o-Cresol)	-	µg/L	3													< 3								< 3					
2-Nitrophenol	-	µg/L	10													< 10								< 10					
3&4-Methylphenol (m&p-Cresol)	-	µg/L	6													< 6								< 6					
4-Nitrophenol	-	µg/L	30													< 30								< 30					
Dinoseb	-	µg/L	100													< 100								< 100					
Phenol	400	µg/L	3													< 3								< 3					
Total Non-Halogenated Phenol*	-	µg/L	100													< 100								< 100					
Polycyclic Aromatic Hydrocarbons (low level)																													
Acenaphthene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			0.39			< 0.01			< 0.01	< 0.01	0.1					
Acenaphthylene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			0.32			< 0.01			< 0.01	< 0.01	< 0.01					
Anthracene	0.4	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Benz(a)anthracene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Benzo(a)pyrene	0.2	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Benzo(b&j)fluoranthene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Benzo(g.h.i)perylene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Benzo(k)fluoranthene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Chrysene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Dibenz(a.h)anthracene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Fluoranthene	1.4	µg/L	0.01		< 0.01				< 0.01				< 0.01			0.18			< 0.01			< 0.01	< 0.01	< 0.01					
Fluorene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Indeno(1.2.3-cd)pyrene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Naphthalene	70	µg/L	0.01		< 0.01				0.09				< 0.01			1.4			< 0.01			< 0.01	< 0.01	< 0.01					
Phenanthrene	2	µg/L	0.01		< 0.01				< 0.01				< 0.01			< 0.01			< 0.01			< 0.01	< 0.01	< 0.01					
Pyrene	-	µg/L	0.01		< 0.01				< 0.01				< 0.01			0.26			< 0.01			< 0.01	< 0.01	< 0.01					
Total PAH*	-	µg/L	0.01		< 0.01				0.09				< 0.01			2.55			< 0.01			< 0.01	< 0.01	0.1					
Total Recoverable Hydrocarbons - 1999 NEPM Fractions																													
TRH C10-C14	-	µg/L	50	< 50	< 50	< 50	< 50	< 50	< 50	200	< 50			< 50	60	< 50	< 50	< 50	< 50	< 50				60	< 50	< 50		< 50	< 50
TRH C10-36 (Total)	-	µg/L	100	< 100	< 100	< 100	< 100	< 100	< 100	900	< 100			< 100	260	< 100	< 100	< 100	< 100	< 100				260	< 100	< 100		< 100	< 100
TRH C15-C28	-	µg/L	100	< 100	< 100	< 100	< 100	< 100	< 100	700	< 100			< 100	200	< 100	< 100	< 100	< 100	< 100				200	< 100	< 100		< 100	< 100
TRH C29-C36	-	µg/L	100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100			< 100	< 100	< 100	< 100	< 100	< 100	< 100				< 100	< 100	< 100		< 100	< 100
TRH C6-C9	-	µg/L	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20			< 20	< 20	< 20	< 20	< 20	< 20	< 20				< 20	< 20	< 20		< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions																													
Naphthalene	70	µg/L	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10			< 10	< 10	10	< 10	< 10	< 10	< 10				< 10	< 10	< 10		< 10	< 10
TRH >C10-C16	600	µg/L	50	< 50	< 50	< 50	< 50	< 50	< 50	300	< 50			< 50	100	< 50	< 50	< 50	< 50	< 50				90	< 50	< 50		< 50	< 50
TRH >C10-C16 less Naphthalene (F2)	-	µg/L	50	< 50	< 50	< 50	< 50	< 50	< 50	300	< 50			< 50	100	< 50	< 50	< 50	< 50	< 50				90	< 50	< 50		< 50	< 50
TRH >C10-C40 (total)*	-	µg/L	100	< 100	< 100	< 100	< 100	< 100	< 100	900	< 100			< 100	300	< 100	< 100	< 100	< 100	< 100				190	< 100	< 100		< 100	< 100
TRH >C16-C34	600	µg/L	100	< 100	< 100	< 100	< 100	< 100	< 100	600	< 100			< 100	200	< 100	< 100	< 100	< 100	< 100				100	< 100	< 100		< 100	< 100
TRH >C34-C40	600	µg/L	100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100			< 100	< 100	< 100	< 100	< 100	< 100	< 100				< 100	< 100	< 100		< 100	< 100
TRH C6-C10	600	µg/L	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20			< 20	< 20	< 20	< 20	< 20	< 20	< 20				< 20	< 20	< 20		< 20	< 20
TRH C6-C10 less BTEX (F1)	-	µg/L	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20			< 20	< 20	< 20	< 20	< 20	< 20	< 20				< 20	< 20	< 20		< 20	< 20

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
[c] 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
NHMRC report Ammonia as Ammonia (NH-3). Converted to Ammonia (as N) to align with laboratory and ANZECC reporting of Ammonia.
Laboratory results for Nitrate (as N) were converted to Nitrate as NO3 to align with NHMRC and ANZECC guidelines for Nitrate NO3.
Bolded values indicate duplicate sample results reported in the assessment due to RPD criteria exceedances