Goulburn Mulwaree Council Gas monitoring GWMC

	EPA Point 13 and 14		/11/2020		14:00 O2 = 20.8	h2s = 0	CO = 0	LEL = 0				
			/04/2021		12:00 O2 = 20.9	h2s = 0	CO = 0	LEL = 0			Verbal confirmation on the day no email evidence	
								EA025CA		EA120CA		
(All numerals right aligned are <)								EA025CA: Suspended Solids		EA120CA: Ash Content		
								pH		Electrical Conductivity @ 25°C		
								pH Unit		µS/cm		
Goulburn Landfill - Quarterly	CA2005607001	GCCBH1	Goulburn City Council - Groundwater Bore 1	EPA Point 7	24-Aug-20	11:00:00						
	CA2007284001	GCCBH1	Goulburn City Council - Groundwater Bore 1		3-Nov-20	10:50:00						
	CA2100773001	GCCBH1	Goulburn City Council - Groundwater Bore 1		24-Feb-21	10:40:00						
	CA2103015001	GCCBH1	Goulburn City Council - Groundwater Bore 1		13-May-21	8:54:00						
Average								#VALUE!		#VALUE!		
	CA2005607002	GCCBH2	Goulburn City Council - Groundwater Bore 2	EPA Point 8	24-Aug-20							6
		GCCBH2	Goulburn City Council - Groundwater Bore 2									
		GCCBH2	Goulburn City Council - Groundwater Bore 2									
	CA2103015002	GCCBH2	Goulburn City Council - Groundwater Bore 2		13-May-21	11:05:00						
Average								#VALUE!		#VALUE!		
	CA2005607003	GCCBH3	Goulburn City Council - Groundwater Bore 3	EPA point 9	24-Aug-20	12:00:00						
	CA2007284003	GCCBH3	Goulburn City Council - Groundwater Bore 3		3-Nov-20	11:58:00						
	CA2100773003	GCCBH3	Goulburn City Council - Groundwater Bore 3		24-Feb-21	13:30:00						
	CA2101955003	GCCBH3	Goulburn City Council - Groundwater Bore 3		26-Mar-21	13:07:00						
	CA2103015003	GCCBH3	Goulburn City Council - Groundwater Bore 3		13-May-21	11:26:00						
Average								#VALUE!		#VALUE!		
	CA2005607004	GCCBH4	Goulburn City Council - Groundwater Bore 4	EPA Point 15	24-Aug-20	10:47:00						
	CA2007284004	GCCBH4	Goulburn City Council - Groundwater Bore 4		3-Nov-20	12:56:00						
	CA2100773004	GCCBH4	Goulburn City Council - Groundwater Bore 4		24-Feb-21	12:35:00						
	CA2101955004	GCCBH4	Goulburn City Council - Groundwater Bore 4		26-Mar-21	11:39:00						
	CA2103015004	GCCBH4	Goulburn City Council - Groundwater Bore 4		13-May-21	12:26:00						
Average								#VALUE!		#VALUE!		
	CA2005607005	GCCLD1	Goulburn City Council - Leachate Dam	EPA Point 11	24-Aug-20	12:20:00						
	CA2007284005	GCCLD1	Goulburn City Council - Leachate Dam		3-Nov-20	12:20:00			7.83			2080
	CA2100773005	GCCLD1	Goulburn City Council - Leachate Dam		24-Feb-21	13:40:00			7.83			2530
	CA2103015005	GCCLD1	Goulburn City Council - Leachate Dam		13-May-21	11:20:00			7.9			2600
Average								#VALUE!		#VALUE!		
	CA2007284006	GCC_SW1	Goulburn City Council Landfill - Storm Water 1	EPA Point 6	3-Nov-20	11:10:00						
	CA2101955006	GCC_SW1	Goulburn City Council Landfill - Storm Water 1		26-Mar-21	11:00:00						
	CA2103015006	GCC_SW1	Goulburn City Council Landfill - Storm Water 1		13-May-21	9:55:00						
								#VALUE!		#VALUE!		
	CA2007284007	GCC_SW3	Goulburn City Council Landfill - Storm Water 3	EPA Point 4	3-Nov-20	13:20:00						
	CA2101955007	GCC_SW3	Goulburn City Council Landfill - Storm Water 3		26-Mar-21	12:10:00						
	CA2103015007	GCC_SW3	Goulburn City Council Landfill - Storm Water 3		13-May-21	12:11:00						
								#VALUE!		#VALUE!		
	CA2004364001	GCCDG1	Goulburn City Council - Dust Guage 1		10-Jul-20	13:10:00						
	CA2005789001	GCCDG1	Goulburn City Council - Dust Guage 1		1-Sep-20	9:40:00						
	CA2006540001	GCCDG1	Goulburn City Council - Dust Guage 1		2-Oct-20	10:10:00						
	CA2007282001	GCCDG1	Goulburn City Council - Dust Guage 1		3-Nov-20	10:00:00						
	CA2008136001	GCCDG1	Goulburn City Council - Dust Guage 1		4-Dec-20	9:35:00						
	CA2100046001	GCCDG1	Goulburn City Council - Dust Guage 1		5-Jan-21	11:15:00						
	CA2100812001	GCCDG1	Goulburn City Council - Dust Guage 1		5-Feb-21	13:49:00						
	CA2101369001	GCCDG1	Goulburn City Council - Dust Guage 1		4-Mar-21	9:27:00						
	CA2102916001	GCCDG1	Goulburn City Council - Dust Guage 1		7-May-21	10:50:00						
Average												
	CA2101955008	GCCD1_OF	Goulburn City Council Landfill - Overflow		26-Mar-21	10:57:00						

EA120-143CA EA120-143CA: Dust Sample Reference Information (Client Supplied Data) Suspended Solids (SS) mg/L	EA120-143CA EA120-143CA: Dust Sample Reference Information (Client Supplied Data) Temperature °C	EA120-143CA EA120-143CA: Dust Sample Reference Information (Client Supplied Data) Ash Content g/m².month	EA125CA EA125CA: Combustible Matter Sampled Date	
	11			
	33			
	26			
	13			
	20.75	#VALUE!	#VALUE!	#VALUE!
	35			
#VALUE!	#VALUE!	#VALUE!	#VALUE!	
	57			
	19			
	8			
	42			
	9			
	27	#VALUE!	#VALUE!	#VALUE!
	15			
	8			
	425			
	1380			
	2			
	457	#VALUE!	#VALUE!	#VALUE!
	18			
	9		16.2	
	19		18.7	
	9 NR			
	13.75	#VALUE!	#VALUE!	#VALUE!
	25			
	26			
	3			
	13.5	#VALUE!	#VALUE!	#VALUE!
	15			
	22			
	60			
	27.625	#VALUE!	#VALUE!	#VALUE!
			2.3	10/07/2020
			1.36	1/09/2020
			4.54	2/10/2020
			2.7	3/11/2020
			4.2	4/12/2020
			2.47	5/01/2021
			2.79	5/02/2021
			1.98	4/03/2021
			2.35	7/05/2021
			1.299473684	
	6			

EA139CA EA139CA: Total Soluble Matter Start Date	EA141CA EA141CA: Total Insoluble Matter Volume Sampled mL	EA142CA EA142CA: Total Solids Combustible Matter g/m².month	ED009CA ED009CA: Anions Total Soluble Matter g/m².month	ED009CA ED009CA: Anions Total Insoluble Matter g/m².month	ED009CA ED009CA: Anions Total Solids g/m².month	ED037CA ED037CA: Alkalinity Chloride mg/L	ED037CA ED037CA: Alkalinity Nitrate as N mg/L	ED037CA ED037CA: Alkalinity Sulfate mg/L	ED037CA ED037CA: Alkalinity Chloride mg/L	
										124
										108
										170
										95.2
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		124.3
									112	0.3
									5	113
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		58.5	56.65
										526
										529
										542
										515
										505
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		523.4
										32.6
										24.8
										18.1
										21.2
										15.6
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		24.175
										346
										455
										597
										592
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		497.5
							86.4	0.3	72.5	
							140	0.3	59.3	
							190	0.4	79.5	
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	104.1	0.25	52.825	#VALUE!
							644	0.3	152	
							492	0.1	110	
							584	0.1	124	
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	456.025	0.1875	109.70625	#VALUE!
4/06/2020	300	0.3 <0.2		2.6	2.6					
7/08/2020	1980	0.6 <0.2		2	2					
1/09/2020	810	4.5	2.7	9	11.7					
2/10/2020	1820	2.1	1.4	4.8	6.2					
3/11/2020	1480	2.2	1	6.4	7.4					
4/12/2020	1260	1.3 <0.2		3.8	3.8					
5/01/2021	1540	1.2	1.2	4	5.2					
5/02/2021	1040	2.3	4.5	4.3	8.8					
1/04/2021	1110	0.8 <0.2		3.1	3.1					
	1260	1.7								
							185	0.4	82.6	

EG005CA EG005CA: Dissolved Metals by ICP-OES Nitrate as N mg/L	EG005CA EG005CA: Dissolved Metals by ICP-OES Sulfate mg/L	EG005CA EG005CA: Dissolved Metals by ICP-OES Bicarbonate Alkalinity as CaCO3 mg/L	EG005CA EG005CA: Dissolved Metals by ICP-OES Carbonate Alkalinity as CaCO3 mg/L	EG005CA EG005CA: Dissolved Metals by ICP-OES Hydroxide Alkalinity as CaCO3 mg/L	EG005CA EG005CA: Dissolved Metals by ICP-OES Total Alkalinity as CaCO3 mg/L
0.6		252			
16.5		88.8			
0.2		282			
3.9		116			
5.3		184.7	#VALUE!	#VALUE!	#VALUE!
4.6					57.8
1.5			63.4	<0.1	63
3.05	#VALUE!		#VALUE!	#VALUE!	60.4
1.4		139			
1.4		137			
1.7		148			
1.4		143			
1.4		141			
1.46		141.6	#VALUE!	#VALUE!	#VALUE!
13.7		5.5			
8.3		5.5			
0.1		3.4			
0.1		4.4			
0.1		5.2			
5.55		4.7	#VALUE!	#VALUE!	#VALUE!
0.1		102			
0.4		110			
0.8		153			
2.5		135			
0.95		125	#VALUE!	#VALUE!	#VALUE!
			11.4	0.1	11
			23.2	0.1	23
			5	0.1	5
#VALUE!	#VALUE!		9.9	0.075	9.75
			238	0.1	238
			158	0.1	158
			99.3	0.1	99
#VALUE!	#VALUE!		126.3	0.09375	126.1875
			6.2	<0.1	6

EG005CA EG005CA: Dissolved Metals by ICP-OES Bicarbonate Alkalinity as CaCO3 mg/L	EK040CA EK040CA: Fluoride Carbonate Alkalinity as CaCO3 mg/L	EK055CA EK055CA: Ammonia as N Hydroxide Alkalinity as CaCO3 mg/L	EN67CA EN67CA: Field Tests Total Alkalinity as CaCO3 mg/L	EN67CA EN67CA: Field Tests Calcium mg/L	EN67CA EN67CA: Field Tests Iron mg/L	EN67CA EN67CA: Field Tests Magnesium mg/L	EN67CA EN67CA: Field Tests Manganese mg/L	EN67CA EN67CA: Field Tests Potassium mg/L
275	0.1	0.1	275	131	0.03	32.4	0.003	29.8
304	0.1	0.1	304	124	0.07	28.6	0.015	34.5
368	0.1	0.1	368	150	0.07	41.3	0.058	28.8
285	0.1	0.1	285	106	0.08	25.4	0.023	24.9
308	0.1	0.1	308	127.75	0.0625	31.925	0.02475	29.5
<0.1	<0.1		58	28	0.26	19.1	0.407	2.5	29.4
					29	0.39	18.7	0.38	3.4
#VALUE!	#VALUE!	#VALUE!	#VALUE!		14.63	9.745	9.5535	1.44	16.4
0.1	0.1	0.1	1		19.9	0.04	32.2	0.056	16.5
0.1	0.1	0.1	1		14.9	0.08	31.2	0.038	12.7
0.1	0.1	0.1	1		17.9	0.09	33.8	0.081	13.7
0.1	0.1	0.1	1		15.3	0.14	29.3	0.067	11.6
0.1	0.1	0.1	1		15	0.14	29.8	0.083	11.4
0.1	0.1	0.1	1		16.6	0.098	31.26	0.065	13.18
0.1	0.1	0.1	1		0.64	0.41	8.67	0.082	1.6
2.6	0.1	0.1	2		0.35	0.51	6.16	0.02	0.7
13	0.1	0.1	13		0.26	2.59	2.66	0.035	0.4
11	0.1	0.1	11		0.46	2.02	2.96	0.066	0.5
12.9	0.1	0.1	13		0.07	0.83	2.21	0.002	0.4
6.675	0.1	0.1	6.75		0.4275	1.3825	5.1125	0.05075	0.8
172	0.1	0.1	172		71.6	0.2	19.2	0.319	52.7
198	0.1	0.1	198		82.4	0.18	23.9	0.326	64.7
241	0.1	0.1	241		104	0.05	32.1	0.324	83.7
280	0.1	0.1	280		113	0.02	32.6	0.184	85.6
222.75	0.1	0.1	222.75		92.75	0.1125	26.95	0.28825	71.675
					20.7	3	10.4	0.606	22.4
					23.9	1.44	12.8	0.56	27.8
					31.5	0.44	16.3	0.615	23
#VALUE!	#VALUE!	#VALUE!	#VALUE!		19.025	1.22	9.875	0.44525	18.3
					53.6	1.24	26.5	0.153	100
					69.4	0.25	24.6	0.064	70.3
					28.1	16.4	22.1	0.17	70.1
#VALUE!	#VALUE!	#VALUE!	#VALUE!		42.53125	4.7775	20.76875	0.2080625	64.675
					29.6	2.45	15.4	0.728	28.9

EP002CA		EP005CA		EP030CA		EP035		EP035G		EN67CA			
EP002CA: Dissolved Organic Carbon		EP005CA: Total Organic Carbon		EP030CA: Biochemical Oxygen Demand		EP035: Phenols (Total)		EP035G: Total Phenol by Discrete Analyser		EN67CA: Job Observations			
Sodium		Fluoride		Fluoride		Ammonia as N		Ammonia as N		Depth to Water Sampling		Depth to Water level	Conductivity
mg/L		mg/L		mg/L		mg/L		mg/L		m		m	µS/cm
	98.9				0.09				0.1		36	36	1380
	82				0.22				0.1		31.7	31.7	1260
	164				0.11				0.1		34.2	33.9	1760
	90.6				0.16				0.1		30.4	30.4	1200
	108.875	#VALUE!			0.145	#VALUE!			0.1		33.075	33	1400
			0.17				0.1		10		10	494	3.7
	32.9		0.19				1.8				8.97	8.97	586
#VALUE!			0.18	#VALUE!			0.95	#VALUE!			9.485	251.485	294.85
	248				0.65				0.1		23	23	2290
	278				0.57				0.1		22.4	22.4	1990
	269				0.86				0.2		21.3	21.1	2080
	262				0.63				0.5		20.7	20.7	1980
	279				0.59				0.7		19.8	19.8	2010
	267.2	#VALUE!			0.66	#VALUE!			0.32		21.44	21.4	2070
	31.6				0.05				0.1		5.2	5.2	290
	25.4				0.05				0.1		5.76	5.76	208
	14.2				0.05				0.1		6.55	5.34	108
	16.8				0.05				0.1		2.9	2.9	120
	13.4				0.05				0.1		4.18	4.18	99.4
	22	#VALUE!			0.05	#VALUE!			0.1		5.1025	4.8	181.5
	193				0.18				2.6				1580
	265				0.23				3.2				
	327				0.26				1.5				
	337				0.26				7.4				
	280.5	#VALUE!			0.2325	#VALUE!			3.675	#VALUE!		#VALUE!	#VALUE!
	49.9		0.09				1.5						601
	69.4		0.09				1						726
	100		0.16				0.1						929
	54.825		0.085	#VALUE!			0.65	#VALUE!		#VALUE!		#VALUE!	564
	423		0.17				0.1						2810
	272		0.15				0.1						2190
	386		0.06				0.1						2420
	283.95625		0.11625	#VALUE!			0.2375	#VALUE!		#VALUE!		#VALUE!	1996
	92		0.12				1.4						902

Dissolved Oxygen mg/L	Temperature °C	pH pH Unit	Dissolved Organic Carbon (as NPOC) mg/L	Dissolved Organic Carbon (as NPOC) mg/L	Total Organic Carbon (as NPOC) mg/L	Total Organic Carbon (as NPOC) mg/L	Dissolved Oxygen mg/L	Biochemical Oxygen Demand mg/L	Phenols (Total) mg/L
7.7	15.6	6.4			36				2
5.5	18.5	6.8			34				4
9.8	17.6	8.2			40				2
2.6	16.3	6.6			44				2
6.4	17	7	#VALUE!		38.5	#VALUE!	#VALUE!	#VALUE!	2.5 #VALUE!
16.9	5.6			1				2	0.05
2.9	17.6	5.6		8					8
9.9	11.6	#VALUE!		4.5	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE! #VALUE!
4.7	15.3	3.6			13				2
3.2	17.8	3.9			15				2
	16.8	5.2			14			9.8	2
7.8	17.9	4			17				2
6.7	16.5	3.8			22				2
#VALUE!	16.86	4.1	#VALUE!		16.2	#VALUE!	#VALUE!	#VALUE!	2 #VALUE!
7.4	15.4	5.3			6				2
1.8	17.2	4.9			7				2
	15.8	6.8			17			8.7	2
6.4	16.6	5			12				2
4	15.8	5.4			10				2
#VALUE!	16.25	5.5	#VALUE!		10.5	#VALUE!	#VALUE!	#VALUE!	2 #VALUE!
3.3	12.4	5.8					33		18
							26	7.2	2
							28	3.3	2
							42	7	2
#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!		32.25	#VALUE!	6 #VALUE!
3.5	18.5	5.6			37				8
5.8	16.3	5.4			37				2
5.8	12.4	5.7			23				2
3.775	11.8	4.175	#VALUE!	#VALUE!	24.25	#VALUE!	#VALUE!		3 #VALUE!
7.4	22.5	6.9			40			<2	
6.8	18	6.5			30			<2	
4.6	13.9	5.9			79				5
5.64375	16.55	5.86875	#VALUE!	#VALUE!	43.3125	#VALUE!	#VALUE!	#VALUE!	#VALUE!
6.3	17.3	5.5			40			<2	

Phenols (Total)	Comment
mg/L	
0.05	
0.05	
0.05	
0.05	
0.05	
	Not Sampled due to site being overgrown and covered.
	Bore hole covered with runoff
0.05	
#VALUE!	#VALUE!
0.05	
0.05	
0.05	
0.05	
0.05	At Special Request after rain event
0.05	
0.05	
0.05	
0.05	
0.05	
0.05	At Special Request after rain event
0.05	
0.05	
0.05	
0.05	
0.05	
0.05	
0.05	
0.05	
0.05	
0.0375	
<0.05	
<0.05	
<0.05	
#VALUE!	
<0.05	