

Quarterly Groundwater Results

December 2020

City of Newcastle - Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection Licence 5897 - Condition M2 - Water Monitoring Grab Samples

Parameter	CN ID		GW33	GW34	GW35	GW42	GW46	GW48	GW49	GW51
	Units	LOR	33	34	35	42	46	48	49	51
Ammonia	mg/L	0.01	0.78	1.12	0.99	0.19	<0.01	0.11	0.06	0.08
Calcium	mg/L	1	347	56	NR	66	62	47	10	9
Chloride	mg/L	1	1760	1790	NR	146	2670	119	613	204
Electrical Conductivity	µS/cm	1	10300	6800	NR	2560	9930	1200	3520	1760
Iron	mg/L	0.05	61.6	7.99	NR	2.27	0.06	0.21	0.19	1.09
Lead	mg/L	0.001	<0.001	<0.001	NR	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	535	88	NR	67	150	32	53	23
Nitrate as N	mg/L	0.01	<0.01	<0.01	19.9	<0.01	0.54	0.01	0.02	0.01
pH Value	pH Unit	0.01	5.83	5.97	NR	6.62	5.79	5.89	5.91	6.24
Potassium	mg/L	1	34	20	NR	16	30	6	16	9
Sodium	mg/L	1	1310	1190	NR	433	1780	177	652	339
Sulfate	mg/L	1	2700	290	NR	591	517	212	588	321
Total Alkalinity as CaCO ₃	mg/L	1	127	380	NR	639	443	349	225	361
Total Dissolved Solids	mg/L	10	8180	3800	NR	1840	5950	768	2240	1200
Total Organic Carbon	mg/L	1	<1	4	7	<1	<1	<1	4	<1
Standing Water Level	mAHD	0.01	24.28	26.64	6.54	35.62	22.24	35.97	36.90	35.54

Notes:

CN = City of Newcastle

EPL = Environment Protection Licence

LOR = limit of reporting

mAHD = metres above Australian Height Datum

Results preceded by < indicate that the results were below the limit of detection for that analysis

NR = no result (non-compliant sample, insufficient water to sample etc)

EPL Monitoring points 31 & 32 were not sampled for safety reasons

Date sampled: 8 – 9 December 2020

Final data obtained: 15 January 2021

Date published: 20 January 2021

A copy of the Environmental Protection Licence can be viewed at: <http://app.epa.nsw.gov.au/prpoeoapp/>

A map showing the location of monitoring points can be viewed at: <http://www.newcastle.nsw.gov.au/Living/Waste-recycling/Summerhill-Waste-management-Centre/Environmental-Monitoring-Data>