

# Quarterly Groundwater Results

## September 2022



### 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	0.86	0.005			0.005	0.01	0.04	0.14
Calcium	mg/L	1	416	361			66	57	18	13
Chloride	mg/L	1	1950	4670			2840	102	481	244
Electrical Conductivity	µS/cm	1	10900	15400			9980	1160	3220	1860
Iron	mg/L	0.05	31.4	<0.05			<0.05	<0.05	0.10	0.82
Lead	mg/L	0.001	<0.001	<0.001			<0.001	<0.001	0.10	<0.001
Magnesium	mg/L	1	553	429			160	39	50	26
Nitrate as N	mg/L	0.01	0.10	0.05			0.50	0.10	0.01	0.08
pH Value	pH Unit	0.01	5.43	6.70			6.80	6.70	6.33	6.37
Potassium	mg/L	1	40	26			34	7	14	10
Sodium	mg/L	1	1280	2430			1840	172	603	366
Sulfate	mg/L	1	3850	938			547	126	591	356
Total Alkalinity as CaCO <sub>3</sub>	mg/L	1	88	542			366	372	327	265
Total Dissolved Solids	mg/L	10	8780	9640			5630	768	2040	1150
Total Organic Carbon	mg/L	1	6	26			11	10	21	16
Standing Water Level	mAHD	0.01	24.38	27.56			22.67	37.72	38.26	36.47

**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.

EPL Monitoring point 35 was not sampled as well had insufficient water to sample.

EPL Monitoring point 42 was not sampled as well is damaged

Date sampled: 7, 8 & 9 September 2022

Final data obtained: 27 September 2022

Date published: 17 October 2022

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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>