

# Quarterly Groundwater Results

## December 2021

### 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	0.93	1.13	NR	0.11	0.01	0.07	0.06	0.11
Calcium	mg/L	1	401	163	NR	66	61	48	9	10
Chloride	mg/L	1	1890	2930	NR	131	3030	101	596	224
Electrical Conductivity	µS/cm	1	10500	10300	NR	2550	10100	1210	3340	1840
Iron	mg/L	0.05	41.3	2.63	NR	1.78	<0.05	0.30	<0.05	0.96
Lead	mg/L	0.001	<0.001	<0.001	NR	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	574	192	NR	72	150	36	45	23
Nitrate as N	mg/L	0.01	0.16	0.08	NR	0.02	0.25	0.03	0.04	0.02
pH Value	pH Unit	0.01	5.69	7.03	NR	6.82	6.51	6.70	6.14	6.28
Potassium	mg/L	1	40	22	NR	15	30	6	14	8
Sodium	mg/L	1	1350	1890	NR	451	1740	182	612	322
Sulfate	mg/L	1	3630	542	NR	663	585	142	638	342
Total Alkalinity as CaCO <sub>3</sub>	mg/L	1	11	104	NR	422	82	353	49	65
Total Dissolved Solids	mg/L	10	9000	6190	NR	1840	6010	930	2310	1830
Total Organic Carbon	mg/L	1	3	9	NR	7	3	5	9	6
Standing Water Level	mAHD	0.01	24.36	27.95	NR	36.31	22.04	36.29	37.13	35.89

**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: 2 December 2021

Final data obtained: 9 December 2021

Date published: 21 January 2022

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>