

# Quarterly Groundwater Results

## March 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	0.82	1.02	0.25	0.17	0.15	0.03	0.05	0.09
Calcium	mg/L	1	377	81	232	65	58	40	9	10
Chloride	mg/L	1	1830	2140	4030	144	3100	118	699	226
Electrical Conductivity	µS/cm	1	10100	7420	13000	2580	9910	1210	3540	1800
Iron	mg/L	0.05	40	3.85	<0.05	2.17	0.15	0.34	0.1	1.12
Lead	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	537	111	191	72	154	32	51	24
Nitrate as N	mg/L	0.01	0.21	0.21	19.1	<0.01	0.44	<0.01	<0.01	<0.01
pH Value	pH Unit	0.01	5.92	6.14	7.16	6.66	6.37	6.39	5.91	6.27
Potassium	mg/L	1	34	19	13	14	30	5	14	8
Sodium	mg/L	1	1300	1360	2350	440	1740	181	636	346
Sulfate	mg/L	1	3620	343	330	652	620	210	718	372
Total Alkalinity as CaCO <sub>3</sub>	mg/L	1	78	436	631	612	436	302	219	327
Total Dissolved Solids	mg/L	10	8820	4370	8400	1880	6140	774	2360	1100
Total Organic Carbon	mg/L	1	2	<1	<1	4	<1	<1	8	<1
Standing Water Level	mAHD	0.01	33.65	6.30	38.94	16.57	8.37	46.57	20.29	15.58

**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: 16 – 17 March 2021

Final data obtained: 20 April 2021

Date published: 22 April 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>