

Quarterly Groundwater Results

April 2019

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	0.70	1.95	0.52	0.14	0.08	0.06	0.06	0.10
Calcium	mg/L	1	355	138	245	60	60	48	10	10
Chloride	mg/L	1	1490	3120	4270	187	2920	149	586	228
Electrical Conductivity	µS/cm	1	10.8	11.3	13.9	2.82	10.9	1.55	3.84	1.98
Iron	mg/L	0.05	55.6	3.46	<0.05	1.66	0.35	0.91	0.28	1.37
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	517	149	183	63	150	35	52	26
Nitrate as N	mg/L	0.01	0.1	<0.01	18.1	0.03	0.53	<0.01	<0.01	<0.01
pH Value	pH Unit	0.01	6.28	6.46	6.97	5.84	6.28	6.46	5.84	6.18
Potassium	mg/L	1	35	18	15	16	31	6	15	9
Sodium	mg/L	1	1240	1820	2270	465	1760	236	644	362
Sulfate	mg/L	1	4010	330	341	608	620	184	702	360
Total Alkalinity as CaCO ₃	mg/L	1	105	422	557	515	355	411	175	264
Total Dissolved Solids	mg/L	10	8290	6110	7950	1900	5900	962	2020	1190
Total Organic Carbon	mg/L	1	3	5	18	8	10	10	9	6
Standing Water Level	mAHD	0.01	33.74	7.29	38.65	16.70	8.88	47.00	20.56	16.24

Notes:

CN = City of Newcastle

EPL = Environment Protection Licence

LOR = limit of reporting

Date sampled: 9, 10 & 11/04/2019

Final data obtained: 18/04/2019

Date published: 2/5/2019

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

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>