

Quarterly Groundwater Results

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

City of Newcastle - Summerhill Waste Management Centre
141 Minmi Road, Wallsend, NSW

Parameter	CN ID		GW33	GW34	GW35	GW42	GW46	GW48	GW49	GW51
	EPL ID		33	34	35	42	46	48	49	51
Parameter	Units	LOR								
Ammonia	mg/L	0.01	1.21	1.02	1.28	0.24	0.19	0.06	0.05	0.12
Calcium	mg/L	1	405	47	273	75	67	53	9	11
Chloride	mg/L	1	1580	1840	4350	243	3030	126	598	236
Electrical Conductivity	µS/cm	1	10100	6580	13200	2820	10600	1370	3730	1860
Iron	mg/L	0.05	14.9	4.18	<0.05	2.04	0.13	0.62	<0.05	1.33
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	612	100	222	82	163	37	49	26
Nitrate as N	mg/L	0.01	0.16	<0.01	18.2	<0.01	0.19	<0.01	<0.01	<0.01
pH Value	pH Unit	0.01	5.66	5.79	7.23	6.59	6.14	6.43	6.04	6.33
Potassium	mg/L	1	38	22	16	16	33	6	13	9
Sodium	mg/L	1	1390	1230	2500	506	1900	222	620	366
Sulfate	mg/L	1	4000	313	363	682	487	105	578	340
Total Alkalinity as CaCO ₃	mg/L	1	146	290	632	545	412	388	205	299
Total Dissolved Solids	mg/L	10	7220	3670	8270	1600	5450	893	2260	1160
Total Organic Carbon	mg/L	1	8	4	12	12	2	<1	7	<1
Standing Water Level	mAHD	0.01	24.27	27.01	6.70	35.50	21.75	35.61	36.66	35.53

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

Date sampled: 22, 23 & 24/01/2019

Final data obtained: 1/02/2019

Date published: 7/03/2019

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>