

Quarterly Groundwater Results

February 2023



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
	EPL ID		33	34	35	42	46	48	49	51
	Units	LOR								
Ammonia	mg/L	0.01	1.30	0.01	0.43	-	<0.01	0.02	0.04	0.10
Calcium	mg/L	1	371	174	232	-	67	65	11	9
Chloride	mg/L	1	1990	3220	*	-	2890	113	571	236
Electrical Conductivity	µS/cm	1	10700	11000	13100	-	9970	1400	3340	1840
Iron	mg/L	0.05	53.7	0.08	<0.05	-	<0.05	0.12	0.12	1.06
Lead	mg/L	0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	561	223	179	-	169	44	47	22
Nitrate as N	mg/L	0.01	<0.10	0.46	*	-	0.58	0.13	0.01	<0.01
pH Value	pH Unit	0.01	6.11	6.77	8.07	-	7.04	6.77	6.10	6.28
Potassium	mg/L	1	35	21	14	-	33	8	15	9
Sodium	mg/L	1	1340	1650	2240	-	2000	221	670	385
Sulfate	mg/L	1	3710	561	*	-	587	134	588	332
Total Alkalinity as CaCO ₃	mg/L	1	67	425	*	-	344	442	248	250
Total Dissolved Solids	mg/L	10	9160	6620	*	-	5720	784	2070	982
Total Organic Carbon	mg/L	1	<1	14	12	-	7	8	19	10
Standing Water Level	mAHD	0.01	24.62	26.86	6.56	-	22.41	36.94	37.79	35.19

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 42 was not sampled as wells are damaged (-)

*Insufficient water for all analysis to be conducted

Date sampled: 7 & 8 February 2023

Final data obtained: 15 February 2023

Date published: 15 March 2023

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>