

# Quarterly Groundwater Results

## October 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	0.89	0.88	0.29	0.24	0.18	0.08	0.06	0.17
Calcium	mg/L	1	364	41	242	53	59	43	9	10
Chloride	mg/L	1	1720	1770	4130	190	3160	153	679	231
Electrical Conductivity	µS/cm	1	9.92	6.6	13.1	2.66	10	1.48	3.65	1.87
Iron	mg/L	0.05	41.6	13.8	<0.05	1.82	0.61	0.98	0.1	1.3
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	530	86	186	64	160	36	55	26
Nitrate as N	mg/L	0.01	0.09	0.02	18	<0.01	0.33	<0.01	0.02	<0.01
pH Value	pH Unit	0.01	5.28	5.84	7.03	6.62	5.8	6.59	5.88	6.23
Potassium	mg/L	1	35	21	14	14	31	7	16	8
Sodium	mg/L	1	1260	1150	2280	452	1820	233	661	345
Sulfate	mg/L	1	3740	305	372	638	581	189	663	376
Total Alkalinity as CaCO <sub>3</sub>	mg/L	1	75	293	583	562	374	396	187	292
Total Dissolved Solids	mg/L	10	8110	3600	7870	1760	6290	887	2120	1080
Total Organic Carbon	mg/L	1	10	13	4	9	8	3	7	3
Standing Water Level	mAHD	0.01	33.72	7.22	38.74	16.43	9.13	47.0	21.25	16.15

**Notes:**

CN = City of Newcastle

EPL = Environment Protection Licence

LOR = limit of reporting

mAHD = metres above Australian Height Datum

Date sampled: 9/10/19 and 10/10/19

Final data obtained: 28/10/19

Date published: 3.12.2019

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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>