Surface Water Results September 2025

City of Newcastle - Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection License 5897 - Condition M2 – Special Frequency 1 (Daily during discharge)
Monthly rainfall = 48.4mm

Purpose of Sampling		SW57, SW58a, SW59	SW57, SW58a & SW59	SW57, SW58a & SW59
CN ID	**EPL ID**	1/09/2025	2/09/2025	3/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	7.65	7.65	7.65
SW58a	**61**	7.10	7.06	7.02
SW59	**66**	7.61	7.57	7.71
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	630	633	642
SW58a	**61**	749	743	772
SW59	**66**	397	404	421
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	<5	<5	<5
SW58a	**61**	53	168	141
SW59	**66**	399	344	99
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	0.15	0.15	0.24
SW58a	**61**	0.10	0.08	0.11
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	2	<2	<2
SW58a	**61**	5	4	4
SW59	**66**	3	3	3

Surface Water Results September 2025

Purpose of Sampling		SW58a & SW59	SW58a & SW59	SW58a & SW59
CN ID	**EPL ID**	4/09/2025	5/09/2025	6/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	6.97	6.92	6.94
SW59	**66**	7.68	7.63	7.75
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	804	820	847
SW59	**66**	419	426	436
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	188	196	63
SW59	**66**	306	336	96
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	0.11	0.09	0.16
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	<2	3	5
SW59	**66**	3	2	3

Surface Water Results September 2025

Purpose of Sampling		SW58a & SW59	SW58a & SW59	SW58a & SW59
CN ID	**EPL ID**	7/09/2025	8/09/2025	9/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	7.00	7.00	7.03
SW59	**66**	7.85	7.74	7.77
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	849	847	829
SW59	**66**	445	452	456
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	64	230	45
SW59	**66**	94	46	85
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	0.13	0.12	0.10
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	6	5	4
SW59	**66**	3	3	2

Surface Water Results September 2025

Purpose of Sampling		SW57, SW58a & SW59	SW57, SW58a & SW59	SW57, SW58a & SW59
CN ID	**EPL ID**	10/09/2025	11/09/2025	12/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	7.52	7.36	7.27
SW58a	**61**	7.12	7.40	7.24
SW59	**66**	7.32	7.39	7.54
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	627	502	447
SW58a	**61**	621	402	472
SW59	**66**	309	373	398
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	15	38	18
SW58a	**61**	68	99	72
SW59	**66**	515	273	134
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	0.40	0.28	0.24
SW58a	**61**	0.12	<0.05	<0.05
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	7	6	3
SW58a	**61**	4	3	2
SW59	**66**	4	3	3

Surface Water Results September 2025

Purpose of Sampling		SW57, SW58a & SW59	SW57, SW58a & SW59	SW57, SW58a & SW59
CN ID	**EPL ID**	13/09/2025	14/09/2025	15/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	7.75	7.36	7.43
SW58a	**61**	7.18	7.12	7.12
SW59	**66**	7.60	7.69	7.68
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	468	481	487
SW58a	**61**	537	588	612
SW59	**66**	424	440	452
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	21	16	8
SW58a	**61**	430	395	377
SW59	**66**	547	480	565
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	0.23	0.22	0.21
SW58a	**61**	0.06	<0.05	<0.05
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	2	4	3
SW58a	**61**	3	3	3
SW59	**66**	2	3	<2

Surface Water Results September 2025

Purpose of Sampling		SW57, SW58a & SW59	SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	16/09/2025	17/09/2025	18/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	7.26	7.31
SW57	**57**	7.45	7.40	7.48
SW58a	**61**	7.05	7.59	7.56
SW59	**66**	7.67	7.68	7.78
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	518	526
SW57	**57**	480	479	481
SW58a	**61**	616	527	537
SW59	**66**	447	464	476
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	48	44
SW57	**57**	5	5	<5
SW58a	**61**	109	116	46
SW59	**66**	659	584	528
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	<0.05	<0.05
SW57	**57**	0.10	0.15	0.25
SW58a	**61**	<0.05	<0.05	0.10
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	2	2
SW57	**57**	<2	2	2
SW58a	**61**	<2	3	2
SW59	**66**	<2	<2	<2

Surface Water Results September 2025

Purpose of Sampling		SW56, SW58a & SW59	SW56, SW58a & SW59	SW56, SW58a & SW59
CN ID	**EPL ID**	19/09/2025	20/09/2025	21/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	7.53	7.23	7.32
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	7.59	7.42	7.58
SW59	**66**	7.87	7.82	7.73
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	516	525	535
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	527	540	542
SW59	**66**	468	487	490
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	34	51	44
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	40	43	38
SW59	**66**	559	630	104
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	<0.05	0.05	0.06
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	<0.05	<0.05	<0.05
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	<2	4	4
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	<2	4	4
SW59	**66**	9	4	3

Surface Water Results September 2025

Purpose of Sampling		SW56, SW58a & SW59	SW56, SW58a & SW59	SW58a & SW59
CN ID	**EPL ID**	22/09/2025	23/09/2025	24/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	7.64	7.53	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	7.58	7.56	7.61
SW59	**66**	7.83	7.79	7.71
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	535	522	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	546	517	540
SW59	**66**	492	471	480
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	67	78	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	45	98	103
SW59	**66**	156	535	389
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	<0.05	0.08	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	<0.05	0.05	0.07
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	4	4	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	4	3	2
SW59	**66**	3	3	>2

Surface Water Results September 2025

Purpose of Sampling		SW58a & SW59	SW58a & SW59	SW58a & SW59
CN ID	**EPL ID**	25/09/2025	26/09/2025	27/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	7.27	7.18	7.09
SW59	**66**	7.73	7.85	7.77
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	565	586	599
SW59	**66**	483	488	499
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	249	45	33
SW59	**66**	140	597	97
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	0.07	0.09	0.15
SW59	**66**	<0.05	<0.05	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	4	2	3
SW59	**66**	2	4	2

Surface Water Results September 2025

Purpose of Sampling		SW55, SW57, SW58a &SW59	SW57, SW58a &SW59	SW57, SW58a &SW59
CN ID	**EPL ID**	28/09/2025	29/09/2025	30/09/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A

Surface Water Results September 2025

Environment Protection Licence 5897 - Condition M2 – SF1 and SF2 Sampling (Monthly)

*Discharging
**Not Discharging

	CN ID		SW55**	SW57**	SW58a**	SW59**
	EPL ID		55	57	61	66
DATE			30/09/2025	30/09/2025	30/09/2025	30/09/2025
Parameter	Units	LOR				
Alkalinity (as calcium carbonate)	mg/L	1	131	123	101	76
Aluminium	mg/L	0.01	2.92	0.35	2.31	8.87
Ammonia	mg/L	0.05	1.17	<0.05	0.16	<0.05
Copper	mg/L	0.001	0.008	<0.01	0.005	0.014
Biological Oxygen Demand	mg/L	2	3	5	5	5
Electrical Conductivity	uS/cm	1	478	469	598	511
Iron	mg/L	0.05	3.63	0.29	2.16	8.50
Lead	mg/L	0.001	0.007	<0.001	0.003	0.018
Nitrate as N	mg/L	0.05	0.78	<0.05	1.17	<0.05
Organochlorine Pesticides	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Organophosphate Pesticides	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005
pH	pH Units	0.01	7.68	8.16	7.30	7.55
Total Suspended Solids	mg/L	5	10	43	52	132
Zinc	mg/L	0.005	0.035	<0.005	0.020	0.064

Surface Water Results September 2025

Environment Protection Licence 5897 - Condition M2 – SF1, SF2 and SF3 Sampling (First Day Discharge)

	CN ID		SW56	SW57
	EPL ID		56	57
DATE			17/09/2025	10/09/25
Parameter	Units	LOR		
Alkalinity (as calcium carbonate)	mg/L	1	112	166
Aluminium	mg/L	0.01	3.78	0.22
Ammonia	mg/L	0.05	<0.05	0.40
Arsenic	mg/L	0.001	0.002	0.004
Barium	mg/L	0.001	0.070	0.074
Benzene	mg/L	0.001	<0.001	<0.001
BOD	mg/L	2	2	7
Cadmium	mg/L	0.0001	<0.0001	<0.0001
Calcium	mg/L	1	20	44
Chloride	mg/L	1	70	60
Chromium (Hex)	mg/L	0.01	<0.01	<0.01
Chromium (Total)	mg/L	0.001	0.003	0.002
Cobalt	mg/L	0.001	0.002	0.005
Copper	mg/L	0.001	0.005	0.001
Electrical Conductivity	uS/cm	1	518	627
Ethyl benzene	mg/L	0.002	<0.002	<0.002
Fluoride	mg/L	0.1	0.2	0.3
Iron	mg/L	0.05	2.78	1.38
Lead	mg/L	0.001	0.004	<0.001
Magnesium	mg/L	1	10	19
Manganese	mg/L	0.001	0.131	2.73
Mercury	mg/L	0.0001	<0.0001	<0.0001
Nitrate as N	mg/L	0.01	5.64	0.47
Organochlorine Pesticides	mg/L	0.0005	<0.0005	<0.0005
Organophosphate Pesticides	mg/L	0.0005	<0.0005	<0.0005
pH	pH Units	0.01	7.26	7.52
Polycyclic Aromatic Hydrocarbons	mg/L	0.001	<0.001	<0.001
Potassium	mg/L	1	7	11
Sodium	mg/L	1	65	68
Sulfate	mg/L	1	49	88
Total Suspended Solids	mg/L	5	48	15
Toluene	mg/L	0.002	<0.002	<0.002
Total Dissolved Solids	mg/L	11	402	409
Total Organic Carbon	mg/L	1	10	27
Total Petroleum Hydrocarbons	mg/L	0.05	<0.05	<0.05
Total Phenolics	mg/L	0.05	<0.05	<0.05
Zinc	mg/L	0.005	0.018	0.028

Surface Water Results September 2025

Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

- Final data obtained: 08/10/2025
- Date published: 17/10/2025

- Notes:
- CN = City of Newcastle
- EPL = Environment Protection Licence
- NR = no result (non-compliant sample, water body dry etc)
- N/A = Not applicable, sample not required
- SW58a located in Wentworth Creek and impacted by other catchment activities.

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:
https://www.newcastle.nsw.gov.au/Living/Waste-and-recycling/Summerhill-Waste-management-Centre/Environmental-Monitoring