

Surface Water Results

July 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 = 109.6 mm

Purpose of Sampling		SW57, SW58a, SW59	SW57, SW58a & SW59	SW56, SW57, SW58a & SW59
CN ID	EPL ID	1/07/2025	2/07/2025	3/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	8.01
SW57	57	7.66	7.31	7.47
SW58a	61	7.48	7.37	7.50
SW59	66	7.66	7.56	7.58
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	541
SW57	57	589	373	459
SW58a	61	438	404	481
SW59	66	490	448	456
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	55
SW57	57	143	111	30
SW58a	61	187	237	96
SW59	66	188	475	134
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	5.18
SW57	57	0.33	0.16	0.17
SW58a	61	0.06	<0.05	2.04
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	3
SW57	57	4	4	<2
SW58a	61	3	<2	2
SW59	66	3	3	<2

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Purpose of Sampling		SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59
CN ID	EPL ID	4/07/2025	5/07/2025	6/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	7.77	7.73	7.71
SW57	57	7.34	7.32	7.31
SW58a	61	7.32	7.03	7.14
SW59	66	7.52	7.53	7.57
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	499	535	538
SW57	57	589	537	499
SW58a	61	520	581	617
SW59	66	473	479	490
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	101	50	13
SW57	57	49	92	50
SW58a	61	167	191	236
SW59	66	333	275	326
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	5.66	5.40	5.21
SW57	57	0.35	0.24	0.28
SW58a	61	1.65	0.93	0.37
SW59	66	<0.05	<0.05	<0.05
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	7	<2	<2
SW57	57	3	<2	2
7.SW58a	61	3	5	4
SW59	66	2	3	2

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Purpose of Sampling		SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59
CN ID	EPL ID	7/07/2025	8/07/2025	9/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	7.04	7.22	7.02
SW57	57	7.49	7.51	7.53
SW58a	61	7.17	7.51	7.57
SW59	66	7.71	7.72	7.60
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	698	760	755
SW57	57	771	801	826
SW58a	61	661	741	747
SW59	66	503	512	500
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<5	<5	<5
SW57	57	16	6	5
SW58a	61	283	29	18
SW59	66	308	92	95
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<0.05	<0.05	<0.05
SW57	57	0.19	0.20	0.14
SW58a	61	0.13	<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	8	4	4
SW57	57	2	2	<2
SW58a	61	3	2	<2
SW59	66	2	2	2

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Purpose of Sampling		SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59
CN ID	EPL ID	10/07/2025	11/07/2025	12/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	7.21	7.12	7.28
SW57	57	7.58	7.58	7.56
SW58a	61	7.57	7.59	7.58
SW59	66	7.43	7.73	7.65
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	769	778	708
SW57	57	849	850	846
SW58a	61	764	771	708
SW59	66	502	498	506
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<5	<5	<5
SW57	57	<5	<5	<5
SW58a	61	11	11	8
SW59	66	96	135	111
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<0.05	<0.05	<0.05
SW57	57	0.14	0.13	0.05
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	4	5	2
SW57	57	<2	<2	<2
SW58a	61	<2	2	<2
SW59	66	<2	<2	<2

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Purpose of Sampling		SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59
CN ID	EPL ID	13/07/2025	14/07/2025	15/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	7.11	6.92	7.07
SW57	57	7.85	6.97	7.78
SW58a	61	7.68	7.65	7.65
SW59	66	7.69	7.76	7.69
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	752	322	779
SW57	57	852	835	858
SW58a	61	714	860	804
SW59	66	507	515	515
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<5	12	<5
SW57	57	5	<5	<5
SW58a	61	6	<5	9
SW59	66	105	72	81
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<0.05	0.33	<0.05
SW57	57	0.09	<0.05	<0.05
SW58a	61	<0.05	0.13	<0.05
SW59	66	<0.05	0.15	<0.05
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<2	<2	<2
SW57	57	2	<2	<2
SW58a	61	<2	<2	<2
SW59	66	<2	3	2

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Purpose of Sampling		SW56, SW57, SW58a & SW59	SW56, SW58a & SW59	SW56, SW58a & SW59
CN ID	EPL ID	16/07/2025	17/07/2025	18/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	7.10	7.10	7.06
SW57	57	7.80	N/A	N/A
SW58a	61	7.68	7.63	7.59
SW59	66	7.81	7.68	7.72
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	825	794	819
SW57	57	865	N/A	N/A
SW58a	61	810	802	823
SW59	66	520	523	527
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<5	<5	<5
SW57	57	<5	N/A	N/A
SW58a	61	15	77	<5
SW59	66	300	70	60
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<0.05	<0.05	<0.05
SW57	57	<0.05	N/A	N/A
SW58a	61	<0.05	<0.05	<0.05
SW59	66	<0.05	<0.05	0.08
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<2	1	1
SW57	57	<2	N/A	N/A
SW58a	61	<2	<2	<2
SW59	66	<2	2	<2

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Purpose of Sampling		SW56, SW58a & SW59	SW56, SW58a & SW59	SW56, SW58a & SW59
CN ID	EPL ID	19/07/2025	20/07/2025	21/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	7.13	7.08	7.19
SW57	57	N/A	N/A	N/A
SW58a	61	7.32	7.17	7.68
SW59	66	7.80	7.77	7.83
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	850	816	843
SW57	57	N/A	N/A	N/A
SW58a	61	811	834	836
SW59	66	527	530	538
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<5	<5	<5
SW57	57	N/A	N/A	N/A
SW58a	61	180	59	14
SW59	66	266	256	284
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<0.05	<0.05	<0.05
SW57	57	N/A	N/A	N/A
SW58a	61	0.12	0.18	0.08
SW59	66	0.05	0.06	0.06
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<2	<2	<2
SW57	57	N/A	N/A	N/A
SW58a	61	<2	2	<2
SW59	66	3	3	3

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Purpose of Sampling		SW56, SW58a & SW59	SW56, SW58a & SW59	SW56, SW58a & SW59
CN ID	EPL ID	22/07/2025	23/07/2025	24/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	7.11	7.06	7.13
SW57	57	N/A	N/A	N/A
SW58a	61	7.63	7.64	7.61
SW59	66	7.82	7.77	7.85
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	903	901	878
SW57	57	N/A	N/A	N/A
SW58a	61	883	888	898
SW59	66	540	545	547
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<5	<5	<5
SW57	57	N/A	N/A	N/A
SW58a	61	5	5	10
SW59	66	125	59	61
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<0.05	<0.05	<0.05
SW57	57	N/A	N/A	N/A
SW58a	61	<0.05	<0.05	<0.05
SW59	66			
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<2	<2	<2
SW57	57	N/A	N/A	N/A
SW58a	61	<2	<2	<2
SW59	66	3	3	2

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Purpose of Sampling		SW56, SW58a & SW59	SW56, SW58a & SW59	SW56, SW58a & SW59
CN ID	EPL ID	25/07/2025	26/07/2025	27/07/2025
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	7.47	7.09	7.25
SW57	57	N/A	N/A	N/A
SW58a	61	7.68	7.59	7.66
SW59	66	7.74	7.87	7.82
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	887	927	1040
SW57	57	N/A	N/A	N/A
SW58a	61	901	913	906
SW59	66	550	543	551
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<5	<5	<5
SW57	57	N/A	N/A	N/A
SW58a	61	<5	<5	6
SW59	66	67	38	57
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	<0.05	<0.05	<0.05
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	<2	<2
SW57	57	N/A	N/A	N/A
SW58a	61	<2	<2	<2
SW59	66	3	4	4

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Purpose of Sampling		SW58a & SW59	SW58a & SW59	SW58a & SW59
CN ID	EPL ID	28/07/2025	29/07/2025	30/07/2025
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	7.38	7.23	7.17
SW59	66	7.82	7.88	7.73
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	925	937	941
SW59	66	556	554	540
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	11	7	88
SW59	66	35	50	46
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	0.06	<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	N/A	N/A	N/A
SW57	57	N/A	N/A	N/A
SW58a	61	<2	2	4
SW59	66	5	3	4

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Purpose of Sampling		SW55, SW56, SW57, SW58a & SW59		
CN ID	EPL ID	31/07/2025		
Parameter:		pH (pH unit)		
SW55	55	7.78		
SW56	56	7.35		
SW57	57	7.42		
SW58a	61	7.42		
SW59	66	7.56		
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	493		
SW56	56	624		
SW57	57	278		
SW58a	61	380		
SW59	66	499		
Parameter:		Suspended Solids (mg/L)		
SW55	55	106		
SW56	56	<5		
SW57	57	67		
SW58a	61	278		
SW59	66	458		
Parameter:		Ammonia (mg/L)		
SW55	55	6.19		
SW56	56	<0.05		
SW57	57	<0.05		
SW58a	61	<0.05		
SW59	66	<0.05		
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	13		
SW56	56	3		
SW57	57	3		
SW58a	61	4		
SW59	66	4		

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

	CN ID		SW58a	SW59
	EPL ID		61	66
DATE			31/07/2025	31/07/2025
Parameter	Units	LOR		
Alkalinity (as calcium carbonate)	mg/L	1	57	71
Aluminium	mg/L	0.01	11.2	11.4
Ammonia	mg/L	0.05	<0.05	<0.05
Copper	mg/L	0.001	0.012	0.016
Biological Oxygen Demand	mg/L	2	4	4
Electrical Conductivity	uS/cm	1	380	499
Iron	mg/L	0.05	10.6	12.5
Lead	mg/L	0.001	0.015	0.021
Nitrate as N	mg/L	0.05	0.44	0.21
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	7.42	7.56
Total Suspended Solids	mg/L	5	278	458
Zinc	mg/L	0.005	0.058	0.073

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

	CN ID		SW55	SW56	SW57
	EPL ID		55	56	57
DATE			31/07/25	3/07/2025	31/07/2025
Parameter	Units	LOR			
Alkalinity (as calcium carbonate)	mg/L	1	129	119	52
Aluminium	mg/L	0.01	2.85	2.03	1.10
Ammonia	mg/L	0.05	6.19	5.18	<0.05
Arsenic	mg/L	0.001	0.002	0.002	0.001
Barium	mg/L	0.001	0.040	0.066	0.042
Benzene	mg/L	0.001	<0.001	<0.001	<0.001
BOD	mg/L	2	13	3	3
Cadmium	mg/L	0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	1	18	24	12
Chloride	mg/L	1	42	56	31
Chromium (Hex)	mg/L	0.01	<0.01	<0.01	<0.01
Chromium (Total)	mg/L	0.001	<0.001	0.002	0.001
Cobalt	mg/L	0.001	<0.001	0.002	<0.001
Copper	mg/L	0.001	0.009	0.004	0.003
Electrical Conductivity	uS/cm	1	493	541	278
Ethyl benzene	mg/L	0.002	<0.002	<0.002	<0.002
Fluoride	mg/L	0.1	0.3	0.2	0.2
Iron	mg/L	0.05	3.17	2.32	0.89
Lead	mg/L	0.001	0.005	0.004	0.002
Magnesium	mg/L	1	10	10	6
Manganese	mg/L	0.001	0.077	0.274	0.040
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001
Nitrate as N	mg/L	0.01	0.73	0.79	2.24
Organochlorine Pesticides	mg/L	0.0005	<0.0005	<0.0005	<0.0005
Organophosphate Pesticides	mg/L	0.0005	<0.0005	<0.0005	<0.0005
pH	pH Units	0.01	7.78	8.01	7.42
Polycyclic Aromatic Hydrocarbons	mg/L	0.001	<0.001	<0.001	<0.001
Potassium	mg/L	1	10	8	4
Sodium	mg/L	1	48	52	28
Sulfate	mg/L	1	52	37	50
Total Suspended Solids	mg/L	5	106	55	67
Toluene	mg/L	0.002	<0.002	<0.002	<0.002
Total Dissolved Solids	mg/L	11	311	349	240
Total Organic Carbon	mg/L	1	8	8	5
Total Petroleum Hydrocarbons	mg/L	0.05	<0.05	<0.05	<0.05
Total Phenolics	mg/L	0.05	<0.05	<0.05	<0.05
Zinc	mg/L	0.005	0.028	0.022	0.013

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Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW



- Final data obtained: 05/08/2025
- Date published: 15/08/2025
- 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>