Surface Water Results
January 2021

City of Newcastle - Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection Licence 5897 - Condition M2

Monthly rainfall = 118.8mm

Purpose of Sampling		SW57 & SW59	SW57 & SW59	SW57 & SW59
CN ID	**EPL ID**	1/01/2021	2/01/2021	3/01/2021
Parameter:			**pH (pH unit)**	
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	6.9	7	6.9
SW58a	**61**	7.3[2]	7.3[2]	7.3[2]
SW59	**66**	7.2	7.4	7.3
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	283	290	312
SW58a	**61**	683[2]	713[2]	827[2]
SW59	**66**	1280	1320	1350
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	31	39	48
SW58a	**61**	27[2]	40[2]	140[2]
SW59	**66**	116	139	122
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	0.02	0.077	0.005
SW58a	**61**	0.027[2]	0.01[2]	0.012[2]
SW59	**66**	<0.005	0.005	<0.005
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	<5	<5	<5
SW58a	**61**	<5[2]	<5[2]	<5[2]
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW55, SW57 & SW59	SW55, SW56, SW57 & SW59	SW57 & SW59
CN ID	**EPL ID**	4/01/2021	5/01/2021	6/01/2021
Parameter:		**pH (pH unit)**		
SW55	**55**	7.38	7.2	NA
SW56	**56**	NA	7.3	NA
SW57	**57**	7	7	7.2
SW58a	**61**	7.3[2]	7.4[2]	7.3[2]
SW59	**66**	7.2	7.5	7.5
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	603	502	NA
SW56	**56**	NA	937	NA
SW57	**57**	285	277	329
SW58a	**61**	778[2]	682[2]	831[2]
SW59	**66**	1360	1250	1420
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	10	41	NA
SW56	**56**	NA	86	NA
SW57	**57**	151	101	314
SW58a	**61**	129[2]	201[2]	44[2]
SW59	**66**	128	96	60
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.08	0.016	NA
SW56	**56**	NA	0.067	NA
SW57	**57**	0.023	0.022	0.076
SW58a	**61**	0.015[2]	0.012[2]	0.02[2]
SW59	**66**	0.016	<0.005	0.006
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	2	6	NA
SW56	**56**	NA	<5	NA
SW57	**57**	31	7	28
SW58a	**61**	<5[2]	<5[2]	<5[2]
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW55, SW57 & SW59	SW57 & SW59	SW57 & SW59
CN ID	**EPL ID**	7/01/2021	8/01/2021	9/01/2021
Parameter:		**pH (pH unit)**		
SW55	**55**	7.25	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	7	7	7.3
SW58a	**61**	7.42[2]	7.3[2]	7.42
SW59	**66**	7.3	7.3	7.6
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	480	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	310	318	274
SW58a	**61**	771[2]	840[2]	615[2]
SW59	**66**	1480	1500	1420
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	28	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	244	246	119
SW58a	**61**	16[2]	25[2]	25[2]
SW59	**66**	85	109	95
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.03	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	0.086	0.081	0.034
SW58a	**61**	0.08[2]	0.028[2]	0.014[2]
SW59	**66**	<0.005	0.005	<0.005
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	4	NA	NA
SW56	**56**	NA	NA	NA
SW57	**57**	17	28	18
SW58a	**61**	3[2]	<5[2]	<5[2]
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW57 & SW59	SW57 & SW59	SW57 & SW59 & SW56 Discharge
CN ID	**EPL ID**	10/01/2021	11/01/2021	12/01/2021
Parameter:		**pH (pH unit)**		
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	7.7
SW57	**57**	7.2	7	7
SW58a	**61**	7.3[2]	7.3[2]	7.6[2]
SW59	**66**	7.4	7.4	7.7
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	858
SW57	**57**	290	320	309
SW58a	**61**	773[2]	861[2]	882[2]
SW59	**66**	1440	1510	1430
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	99
SW57	**57**	208	305	103
SW58a	**61**	35[2]	35[2]	33[2]
SW59	**66**	90	102	73
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	0.049
SW57	**57**	0.053	0.047	0.059
SW58a	**61**	0.02[2]	0.029[2]	0.021[2]
SW59	**66**	0.006	0.006	0.006
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	NA	NA	NA
SW56	**56**	NA	NA	<5
SW57	**57**	18	24	15
SW58a	**61**	<5[2]	<5[2]	<5[2]
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW59 & SW56	SW59 & SW56	SW56, SW57 & SW59
CN ID	**EPL ID**	13/01/2021	14/01/2021	15/01/2021
Parameter:			**pH (pH unit)**	
SW55	**55**	NA	NA	NA
SW56	**56**	7.5	7.9	8
SW57	**57**	NA	NA	NA
SW58a	**61**	7.4[2]	7.2[2]	7.4[2]
SW59	**66**	7.5	7.4	7.6
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	NA	NA	NA
SW56	**56**	920	925	920
SW57	**57**	NA	NA	NA
SW58a	**61**	878[2]	886[2]	794[2]
SW59	**66**	1530	1530	1510
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	NA	NA	NA
SW56	**56**	28	54	21
SW57	**57**	NA	NA	NA
SW58a	**61**	80[2]	25[2]	11[2]
SW59	**66**	72	76	74
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	NA	NA	NA
SW56	**56**	0.047	0.029	0.58
SW57	**57**	NA	NA	NA
SW58a	**61**	0.023[2]	0.029[2]	0.036[2]
SW59	**66**	<0.005	0.006	0.012
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	NA	NA	NA
SW56	**56**	<5	<5	<5
SW57	**57**	NA	NA	NA
SW58a	**61**	<5[2]	<5[2]	<5[2]
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW56	SW57	SW57
CN ID	**EPL ID**	28/01/2021	29/01/2021	30/01/2021
Parameter:		**pH (pH unit)**		
SW55	**55**	NA	NA	NA
SW56	**56**	7.5	NA	NA
SW57	**57**	NA	7.1	7.1
SW58a	**61**	7.2[2]	7.2[2]	7.2[2]
SW59	**66**	NA	NA	NA
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	NA	NA	NA
SW56	**56**	1090	NA	NA
SW57	**57**	NA	333	331
SW58a	**61**	509[2]	455[2]	784[2]
SW59	**66**	NA	NA	NA
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	NA	NA	NA
SW56	**56**	17	NA	NA
SW57	**57**	NA	41	40
SW58a	**61**	16[2]	11[2]	6[2]
SW59	**66**	NA	NA	NA
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	NA	NA	NA
SW56	**56**	0.26	NA	NA
SW57	**57**	NA	0.061	0.032
SW58a	**61**	0.5[2]	0.022[2]	0.024[2]
SW59	**66**	NA	NA	NA
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	NA	NA	NA
SW56	**56**	<5	NA	NA
SW57	**57**	NA	17	7
SW58a	**61**	<5[2]	<5[2]	6[2]
SW59	**66**	NA	NA	NA

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Purpose of Sampling		SW57
CN ID	**EPL ID**	31/01/2021
Parameter:		**pH (pH unit)**
SW55	**55**	NA
SW56	**56**	NA
SW57	**57**	7
SW58a	**61**	7.4[2]
SW59	**66**	NA
Parameter:		**Electrical Conductivity (µS/cm)**
SW55	**55**	NA
SW56	**56**	NA
SW57	**57**	323
SW58a	**61**	628[2]
SW59	**66**	NA
Parameter:		**Suspended Solids (mg/L)**
SW55	**55**	NA
SW56	**56**	NA
SW57	**57**	132
SW58a	**61**	5[2]
SW59	**66**	NA
Parameter:		**Ammonia (mg/L)**
SW55	**55**	NA
SW56	**56**	NA
SW57	**57**	0.062
SW58a	**61**	0.025[2]
SW59	**66**	NA
Parameter:		**Biological Oxygen Demand (mg/L)**
SW55	**55**	NA
SW56	**56**	NA
SW57	**57**	26
SW58a	**61**	<5[2]
SW59	**66**	NA

Surface Water Results
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Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection Licence 5897 - Condition M2

Final data obtained: 8/02/2021
Date published: 15/02/2021

Notes:
CN = City of Newcastle
EPL = Environment Protection Licence
NR = no result (non-compliant sample, water body dry etc)
NA = Not applicable, sample not required
1. Water body not discharging from site
2. 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