Surface Water Results September 2022

City of Newcastle - Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection Licence 5897 - Condition M2

Monthly rainfall = 125.6mm

Purpose of Sampling		SW55, SW56, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	1/09/2022	2/09/2022	3/09/2022
Parameter:			**pH (pH unit)**	
SW55	**55**	7.7	7.6	7.3
SW56	**56**	8.6	8.6	8.1
SW57	**57**	7.7	7.6	7.6
SW58a	**61**	7.4	7.4	7.7
SW59	**66**	7.6	7.5	7.3
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	589	559	408
SW56	**56**	757	710	673
SW57	**57**	459	438	323
SW58a	**61**	800	861	614
SW59	**66**	995	944	804
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	6	19	73
SW56	**56**	25	27	43
SW57	**57**	<5	6	54
SW58a	**61**	66	72	170
SW59	**66**	110	74	160
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	0.015	0.075	0.12
SW56	**56**	0.031	0.037	0.029
SW57	**57**	0.027	0.024	0.016
SW58a	**61**	0.11	0.054	0.084
SW59	**66**	0.071	0.059	0.040
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	<5	<5	<5
SW56	**56**	<5	<5	<5
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

Surface Water Results September 2022

Purpose of Sampling		SW55, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	4/09/2022	5/09/2022	6/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	7.3	7.3	7.3
SW56	**56**	8.0	7.8	8.1
SW57	**57**	7.6	7.4	7.6
SW58a	**61**	7.6	7.6	7.5
SW59	**66**	7.4	7.4	7.4
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	361	385	435
SW56	**56**	663	680	671
SW57	**57**	242	262	263
SW58a	**61**	664	720	732
SW59	**66**	768	887	884
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	50	32	18
SW56	**56**	76	73	49
SW57	**57**	60	66	39
SW58a	**61**	81	120	45
SW59	**66**	200	160	59
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.029	0.057	0.027
SW56	**56**	0.063	0.087	0.036
SW57	**57**	0.013	0.033	0.039
SW58a	**61**	0.035	0.038	0.046
SW59	**66**	0.023	0.025	0.030
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	<5	<5	5
SW56	**56**	<5	<5	6
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW55, SW56, SW57, SW58a & SW59	SW55, SW57, SW58a & SW59	SW55, SW57, SW58a & SW59
CN ID	**EPL ID**	7/09/2022	8/09/2022	9/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	7.4	7.4	7.2
SW56	**56**	7.8	7.9	8.4
SW57	**57**	7.3	7.6	7.4
SW58a	**61**	7.9	7.6	7.3
SW59	**66**	7.4	7.4	7.5
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	455	456	440
SW56	**56**	666	671	688
SW57	**57**	283	283	296
SW58a	**61**	690	684	792
SW59	**66**	896	894	913
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	7	14	11
SW56	**56**	66	110	89
SW57	**57**	26	33	20
SW58a	**61**	90	94	110
SW59	**66**	71	150	100
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.023	0.059	0.030
SW56	**56**	0.10	0.19	0.16
SW57	**57**	0.049	0.030	0.029
SW58a	**61**	0.098	0.11	0.075
SW59	**66**	0.018	0.022	0.024
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	<5	<5	<5
SW56	**56**	6	8	<5
SW57	**57**	5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW55, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	10/09/2022	11/09/2022	12/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	-	7.6	7.2
SW56	**56**	8.1	8.2	7.9
SW57	**57**	8.3	8.8	7.5
SW58a	**61**	7.6	7.6	7.5
SW59	**66**	7.6	7.7	7.5
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	-	448	457
SW56	**56**	666	651	697
SW57	**57**	270	277	308
SW58a	**61**	737	744	796
SW59	**66**	876	899	954
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	-	8	70
SW56	**56**	89	78	70
SW57	**57**	15	16	8
SW58a	**61**	54	47	45
SW59	**66**	64	66	53
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	-	0.018	0.043
SW56	**56**	0.14	0.13	0.15
SW57	**57**	0.033	0.029	0.056
SW58a	**61**	0.051	0.039	0.060
SW59	**66**	0.037	0.047	0.044
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	-	<5	11
SW56	**56**	<5	<5	<5
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW55, SW56, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	13/09/2022	14/09/2022	15/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	7.4	7.4	-
SW56	**56**	8.0	8.0	-
SW57	**57**	7.6	7.7	7.4
SW58a	**61**	7.5	7.4	7.2
SW59	**66**	7.6	7.6	7.5
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	501	500	-
SW56	**56**	699	708	-
SW57	**57**	313	310	318
SW58a	**61**	790	800	858
SW59	**66**	961	963	964
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	6	6	-
SW56	**56**	100	200	-
SW57	**57**	313	310	318
SW58a	**61**	66	68	45
SW59	**66**	68	130	94
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.027	0.015	-
SW56	**56**	0.17	0.20	-
SW57	**57**	0.028	0.031	0.019
SW58a	**61**	0.040	0.055	0.051
SW59	**66**	0.034	0.035	0.030
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	<5	<5	-
SW56	**56**	<5	<5	-
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW55, SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	16/09/2022	17/09/2022	18/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	7.2	7.6	7.7
SW56	**56**	-	-	-
SW57	**57**	7.3	8.4	8.8
SW58a	**61**	7.4	7.7	7.6
SW59	**66**	7.5	7.8	7.7
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	560	536	505
SW56	**56**	-	-	-
SW57	**57**	301	302	298
SW58a	**61**	668	782	785
SW59	**66**	940	951	963
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	16	12	8
SW56	**56**	-	-	-
SW57	**57**	12	17	15
SW58a	**61**	79	60	63
SW59	**66**	85	98	82
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.025	0.006	0.005
SW56	**56**	-	-	-
SW57	**57**	0.024	0.007	0.008
SW58a	**61**	0.029	0.026	0.025
SW59	**66**	0.039	0.031	0.026
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	<5	<5	<5
SW56	**56**	-	-	-
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	19/09/2022	20/09/2022	21/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	-	7.3	7.3
SW56	**56**	-	-	-
SW57	**57**	7.6	7.4	7.5
SW58a	**61**	7.3	7.3	7.5
SW59	**66**	7.6	7.6	7.6
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	-	568	527
SW56	**56**	-	-	-
SW57	**57**	338	314	323
SW58a	**61**	829	892	760
SW59	**66**	976	978	962
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	-	25	62
SW56	**56**	-	-	-
SW57	**57**	10	10	9
SW58a	**61**	63	64	39
SW59	**66**	82	70	74
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	-	0.13	0.060
SW56	**56**	-	-	-
SW57	**57**	0.012	0.014	0.024
SW58a	**61**	0.033	0.046	0.032
SW59	**66**	0.030	0.034	0.044
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	-	<5	<5
SW56	**56**	-	-	-
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

Surface Water Results September 2022

Purpose of Sampling		SW56, SW57, SW58a & SW59	SW57, SW58a & SW59	SW55, SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	22/09/2022	23/09/2022	24/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	7.8	7.7	7.7
SW56	**56**	-	-	-
SW57	**57**	7.9	7.9	7.9
SW58a	**61**	7.5	7.6	7.6
SW59	**66**	7.6	7.5	7.7
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	465	413	458
SW56	**56**	-	-	-
SW57	**57**	282	258	267
SW58a	**61**	556	624	703
SW59	**66**	891	881	842
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	7	14	8
SW56	**56**	-	-	-
SW57	**57**	19	24	14
SW58a	**61**	82	55	53
SW59	**66**	82	64	66
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.010	0.010	0.016
SW56	**56**	-	-	-
SW57	**57**	0.013	0.006	0.010
SW58a	**61**	0.014	0.024	0.048
SW59	**66**	0.035	0.035	0.054
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	<5	<5	<5
SW56	**56**			
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

Surface Water Results September 2022

Purpose of Sampling		SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59	SW56, SW57, SW58a & SW59
CN ID	**EPL ID**	25/09/2022	26/09/2022	27/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	7.4	7.4	7.3
SW56	**56**			
SW57	**57**	7.9	7.6	7.4
SW58a	**61**	7.6	7.5	7.5
SW59	**66**	7.7	7.4	7.4
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	493	475	491
SW56	**56**			
SW57	**57**	279	275	286
SW58a	**61**	657	710	765
SW59	**66**	924	895	911
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	5	5	7
SW56	**56**			
SW57	**57**	22	18	14
SW58a	**61**	57	50	44
SW59	**66**	63	71	58
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.032	0.013	0.045
SW56	**56**			
SW57	**57**	0.028	0.028	0.013
SW58a	**61**	0.042	0.036	0.030
SW59	**66**	0.029	0.048	0.038
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	<5	<5	<5
SW56	**56**			
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

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Purpose of Sampling		SW55, SW56, SW57, SW58a, SW59	SW55, SW56, SW57, SW58a, SW59	SW55, SW56, SW57, SW58a, SW59
CN ID	**EPL ID**	28/09/2022	29/09/2022	30/09/2022
Parameter:		**pH (pH unit)**		
SW55	**55**	7.2	7.4	7.3
SW56	**56**	8.0	7.9	7.8
SW57	**57**	7.3	7.4	7.4
SW58a	**61**	7.6	7.5	7.5
SW59	**66**	7.5	7.6	7.6
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	487	492	521
SW56	**56**	729	679	661
SW57	**57**	269	279	280
SW58a	**61**	657	712	570
SW59	**66**	899	916	894
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	<5	9	6
SW56	**56**	20	30	66
SW57	**57**	10	12	15
SW58a	**61**	10	22	180
SW59	**66**	42	61	46
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	0.054	0.026	0.26
SW56	**56**	0.30	0.29	0.29
SW57	**57**	0.021	<0.005	0.013
SW58a	**61**	0.097	0.041	0.019
SW59	**66**	0.044	0.038	0.035
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	<5	<5	<5
SW56	**56**	<5	<5	<5
SW57	**57**	<5	<5	<5
SW58a	**61**	<5	<5	<5
SW59	**66**	<5	<5	<5

Surface Water Results September 2022

Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection Licence 5897 - Condition M2

Final data obtained: 8/10/2022
Date published: 17/10/2022

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:

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