BURWOOD BEACH WASTEWATER TREATMENT WORKS - ANNUAL POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 1683
Date Obtained: 10 July 2017
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Hunter Water Corporation
36 Honeysuckle Drive
NEWCASTLE WEST NSW 2302

QUALITY MONITORING

EPA Id. No. 1 Site Code 5SL0600	Site Description - Inspection pit down stream of the secondary clarifier and the wet weather bypass chamber														
				Annual Summary 1 July 2016 to 30 June 2017											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Number of measurements	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Oil and Grease	milligrams per litre	Every 12 days exactly	30	<2	4	5	<2	10	2	N/A	15	N/A	N/A	N/A	Yes
Total Suspended Solids	milligrams per litre	Every 12 days exactly	30	3	43	35	16	50	28	N/A	60	N/A	N/A	N/A	Yes
Aldrin	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	micrograms per litre	2 times a year	2	1.4	1.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Biochemical Oxygen Demand	milligrams per litre	Every 12 days exactly	30	13	110	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium	micrograms per litre	2 times a year	2	<0.20	<0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane, total	micrograms per litre	2 times a year	2	<0.020	<0.020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium	micrograms per litre	2 times a year	2	0.4	0.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper	micrograms per litre	2 times a year	2	4.5	7.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan	micrograms per litre	2 times a year	2	<0.030	<0.030	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	micrograms per litre	2 times a year	2	<0.005	<0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobenzene	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lead	micrograms per litre	2 times a year	2	0.3	0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury	micrograms per litre	2 times a year	2	<0.1	<0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel	micrograms per litre	2 times a year	2	2.6	3.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p,p-DDD	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p,p-DDE	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p,p-DDT	micrograms per litre	2 times a year	2	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Polychlorinated biphenyls	micrograms per litre	2 times a year	2	<0.10	<0.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium	micrograms per litre	2 times a year	2	<0.2	<0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silver	micrograms per litre	2 times a year	2	<1.0	<1.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Zinc	micrograms per litre	2 times a year	2	19.0	24.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 3 Site Code 5CB0600	Site Description - Sludge pumping station														
				Annual Summary 1 July 2016 to 30 June 2017											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Number of measurements	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Aldrin	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	micrograms per litre	Weekly	52	4.1	37.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium	micrograms per litre	Weekly	52	0.8	5.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane, total	micrograms per litre	Monthly	12	<0.020	<0.020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium	micrograms per litre	Weekly	52	7.9	61.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper	micrograms per litre	Weekly	52	90	1850	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	micrograms per litre	Monthly	12	<0.005	<0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobenzene	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lead	micrograms per litre	Weekly	52	31.0	268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury	micrograms per litre	Weekly	52	<0.1	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel	micrograms per litre	Weekly	52	14.7	86.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrogen (ammonia)	milligrams per litre	Every 6 days exactly	60	4.9	143	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oil and Grease	milligrams per litre	Every 6 days exactly	60	3	301	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p,p-DDD	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p,p-DDE	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p,p-DDT	micrograms per litre	Monthly	12	<0.010	<0.010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Polychlorinated biphenyls	micrograms per litre	Monthly	12	<0.10	<0.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium	micrograms per litre	Weekly	52	0.4	19.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silver	micrograms per litre	Weekly	52	<1	21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Solids	percent by weight	Every 6 days exactly	60	0.17	11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Zinc	micrograms per litre	Weekly	52	615	4480	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 10 Site Code 5SG0601	Site Description - Pump well between clarifier and the sludge line														
				Annual Summary 1 July 2016 to 30 June 2017											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Number of measurements	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Total Solids	percent by weight	Every 6 days exactly	60	<0.10	0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPA Id. No. 11 Site Code 5CC0600	Site Description - scum pump well														
				Annual Summary 1 July 2016 to 30 June 2017											
Pollutant	Unit of Measurement	Sampling Frequency	No. of times measured during the year for licence reporting	Minimum	Maximum	50%ile Limit	50%ile Actual	90%ile Limit	90%ile Actual	3DGM Number of measurements	3DGM Limit	3DGM Actual	100%ile Limit	100%ile Actual	Within Limits
Total Solids	percent by weight	Every 6 days exactly	60	<0.10	7.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A