

Licence No: 1580

Link to licence: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29021&SYSUID=1&LICID=1580>

licensee's name: NESTLE AUSTRALIA LTD

licensee's address: Rawson Street Smithtown, NSW 2440

Location of monitoring point: Drain discharging to Macleay River approx. 52m from the northern boundary and marked as "DP001" on drawing titled "Nestle Site Plan" submitted with Licence Information form dated 27/1/00

**Monitoring Period : Jan-22**

External Lab Analysis

Sampled: 19/01/2022

Results: 28/01/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.06	N
TSS	mg/L	Monthly	15	30	3	N
BOD	mg/L	Monthly	10	20	1	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	<0.005	N
Nitrogen (Total)	mg/L	Monthly	10	20	0.833	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	2.27	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	0	372	156	170.6	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

percentile: percentage (e.g.90%) of the number of samples taken that must meet the concentration limit specified in the licence for the pollutant over a specified period of time.

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**Monitoring Period : Feb-22**

External Lab Analysis

Sampled: 19/02/2022

Results: 14/03/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.03	N
TSS	mg/L	Monthly	15	30	4	N
BOD	mg/L	Monthly	10	20	<1	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.08	N
Nitrogen (Total)	mg/L	Monthly	10	20	1.91	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	2.66	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	0	541	189	219.1	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

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**Monitoring Period : Mar-22**

External Lab Analysis

Sampled: 20/03/2022

Results: 5/04/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	7.89	N
TSS	mg/L	Monthly	15	30	4	N
BOD	mg/L	Monthly	10	20	2	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.042	N
Nitrogen (Total)	mg/L	Monthly	10	20	1.32	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	2.59	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	93	455	246	253.1	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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**Monitoring Period : Apr-22**

External Lab Analysis

Sampled: 22/04/2022

Results: 4/05/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.06	N
TSS	mg/L	Monthly	15	30	3	N
BOD	mg/L	Monthly	10	20	4	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.042	N
Nitrogen (Total)	mg/L	Monthly	10	20	0.82	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	0.43	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	0	345	202.5	181.5	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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### Monitoring Period : May-22

External Lab Analysis

Sampled: 11/05/2022

Results: 1/06/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.01	N
TSS	mg/L	Monthly	15	30	4	N
BOD	mg/L	Monthly	10	20	3	N
Oils and Grease	mg/L	Monthly	5	10	2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.018	N
Nitrogen (Total)	mg/L	Monthly	10	20	0.59	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	0.11	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	0.0	540.0	180.0	183.7	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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### Monitoring Period : Jun-22

External Lab Analysis

Sampled: 30/06/2022

Results: 13/07/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	7.69	N
TSS	mg/L	Monthly	15	30	29	N-90th
BOD	mg/L	Monthly	10	20	10	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.363	N
Nitrogen (Total)	mg/L	Monthly	10	20	3.42	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	2.91	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	0.0	409.0	171.0	200.7	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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**Monitoring Period : Jul-22**

External Lab Analysis

Sampled: 25/07/2022

Results: 15/08/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	7.99	N
TSS	mg/L	Monthly	15	30	7	N
BOD	mg/L	Monthly	10	20	<1	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.226	N
Nitrogen (Total)	mg/L	Monthly	10	20	1.66	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	1.55	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	102	451	181	196.3	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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**Monitoring Period : Aug-22**

External Lab Analysis

Sampled: 22/08/2022

Results: 7/09/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8	N
TSS	mg/L	Monthly	15	30	2	N
BOD	mg/L	Monthly	10	20	5	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.064	N
Nitrogen (Total)	mg/L	Monthly	10	20	0.83	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	0.32	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	15	474	237	255.1	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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### Monitoring Period : Sep-22

External Lab Analysis

Sampled: 23/09/2022

Results: 7/10/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.05	N
TSS	mg/L	Monthly	15	30	3	N
BOD	mg/L	Monthly	10	20	1.8	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	1	2	0.336	N
Nitrogen (Total)	mg/L	Monthly	5	10	1.35	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	1.1	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	75	324	184.5	196.7	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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**Monitoring Period : Oct-22**

External Lab Analysis

Sampled: 17/10/2022

Results: 3/11/2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.28	N
TSS	mg/L	Monthly	15	30	6	N
BOD	mg/L	Monthly	10	20	1.4	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	1	2	0.035	N
Nitrogen (Total)	mg/L	Monthly	5	10	0.98	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	1.59	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	12	349	150	168.3	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

percentile: percentage (e.g.90%) of the number of samples taken that must meet the concentration limit specified in the licence for the pollutant over a specified period of time.

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**Monitoring Period : Nov-22**

External Lab Analysis

Sampled: 18.11.22

Results: 1.12.2022

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.02	N
TSS	mg/L	Monthly	15	30	3	N
BOD	mg/L	Monthly	10	20	0.89	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	1	2	<0.005	N
Nitrogen (Total)	mg/L	Monthly	5	10	1.21	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	2.23	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	54.0	740.0	164.0	232.3	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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**Monitoring Period : Dec-22**

External Lab Analysis

Sampled: 9.12.22

Results: 21.12.22

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.1	N
TSS	mg/L	Monthly	15	30	4	N
BOD	mg/L	Monthly	10	20	1.2	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	1	2	0.163	N
Nitrogen (Total)	mg/L	Monthly	5	10	1.18	N
Phosphorus (Total)	mg/L	Monthly	0.5	1	3.94	*

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	84.0	295.0	144.0	161.0	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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