

NESTLÉ SMITHTOWN 2015 MONITORING

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-15

External Lab Analysis

Sampled: 22/01/2015

Results: 9/02/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.21	N
TSS	mg/L	Monthly	Lab Result		< 2.0	N
TSS (calculated)	kg/day	Monthly	0	24	1.9	N
BOD	mg/L	Monthly	0	20	1.0	N
Oils and Grease	mg/L	Monthly	0	10	< 2.0	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	30	346	195	182.5	N
Daily TSS	kg/day	daily	24	0	3.2	0.8	1.0	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Feb-15

External Lab Analysis

Sampled: 20/02/2015

Results: 3/03/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.27	N
TSS	mg/L	Monthly	Lab Result		41	N
TSS (calculated)	kg/day	Monthly	0	24	7.4	N
BOD	mg/L	Monthly	0	20	68	Y
Oils and Grease	mg/L	Monthly	0	10	< 2.0	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	60	353	180	189	N
Daily TSS	kg/day	daily	24	0.2	31.9	3.0	7.9	Y

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Mar-15

External Lab Analysis

Sampled: 25/03/2015

Results: 27/03/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.22	N
TSS	mg/L	Monthly	Lab Result		7	N
TSS (calculated)	kg/day	Monthly	0	24	1.7	N
BOD	mg/L	Monthly	0	20	8	N
Oils and Grease	mg/L	Monthly	0	10	4.3	N

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	484	240	224	N
Daily TSS	kg/day	daily	24	0	166.6	2	7.6	Y

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Apr-15

External Lab Analysis

Sampled: 15/04/2015

Results: 16/04/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.28	N
TSS	mg/L	Monthly	Lab Result		< 1	N
TSS (calculated)	kg/day	Monthly	0	24	0.2	N
BOD	mg/L	Monthly	0	20	1	N
Oils and Grease	mg/L	Monthly	0	10	3.6	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	45	187	191	345	N
Daily TSS	kg/day	daily	24	1	15.5	3.1	4.2	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : May-15

External Lab Analysis

Sampled: 20/05/2015

Results: 22/05/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.5	N
TSS	mg/L	Monthly	Lab Result		9	N
TSS (calculated)	kg/day	Monthly	0	24	2.2	N
BOD	mg/L	Monthly	0	20	5	N
Oils and Grease	mg/L	Monthly	0	10	< 2.0	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	150	360	225	234	N
Daily TSS	kg/day	daily	24	0.3	4.7	1	1.2	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Jun-15

External Lab Analysis

Sampled: 19/06/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.25	N
TSS	mg/L	Monthly	Lab Result		4	N
TSS (calculated)	kg/day	Monthly	0	24	1	N
BOD	mg/L	Monthly	0	20	2	N
Oils and Grease	mg/L	Monthly	0	10	< 2.0	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	201	367	272	277	N
Daily TSS	kg/day	daily	24	0.6	8.3	2.5	3.1	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Jul-15

External Lab Analysis

Sampled: 15/07/2015

Results: 16/07/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.16	N
TSS	mg/L	Monthly	Lab Result		4	N
TSS (calculated)	kg/day	Monthly	0	24	0.8	N
BOD	mg/L	Monthly	0	20	1	N
Oils and Grease	mg/L	Monthly	0	10	< 2.0	N

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	391	240	214	N
Daily TSS	kg/day	daily	24	0.1	4.6	0.6	0.9	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Aug-15

External Lab Analysis

Sampled: 20/08/2015

Results: 24/08/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.4	N
TSS	mg/L	Monthly	Lab Result		11	N
TSS (calculated)	kg/day	Monthly	0	24	3.3	N
BOD	mg/L	Monthly	0	20	6	N
Oils and Grease	mg/L	Monthly	0	10	4.9	N

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	306	210	213	N
Daily TSS	kg/day	daily	24	0.1	4	0.9	1.2	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Sep-15

External Lab Analysis

Sampled: 16/09/2015

Results: 18/09/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.4	N
TSS	mg/L	Monthly	Lab Result		16	N
TSS (calculated)	kg/day	Monthly	0	24	3.7	N
BOD	mg/L	Monthly	0	20	3	N
Oils and Grease	mg/L	Monthly	0	10	5	N

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	345	248	240	N
Daily TSS	kg/day	daily	24	0.5	5.3	2.3	2.4	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Oct-15

External Lab Analysis

Sampled: 21/10/2015

Results: 23/10/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.24	N
TSS	mg/L	Monthly	Lab Result		4	N
TSS (calculated)	kg/day	Monthly	0	24	1	N
BOD	mg/L	Monthly	0	20	1	N
Oils and Grease	mg/L	Monthly	0	10	5	N

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	345	205	198	N
Daily TSS	kg/day	daily	24	0.3	4	0.9	1.1	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Nov-15

External Lab Analysis

Sampled: 18/11/2015

Results: 20/11/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.37	N
TSS	mg/L	Monthly	Lab Result		5	N
TSS (calculated)	kg/day	Monthly	0	24	1.2	N
BOD	mg/L	Monthly	0	20	5	N
Oils and Grease	mg/L	Monthly	0	10	5	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	30	346	240	222	N
Daily TSS	kg/day	daily	24	0.2	3.6	1.2	1.3	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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Monitoring Period : Dec-15

External Lab Analysis

Sampled: 16/12/2015

Results: 18/12/2015

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.32	N
TSS	mg/L	Monthly	Lab Result		<1	N
TSS (calculated)	kg/day	Monthly	0	24	0.2	N
BOD	mg/L	Monthly	0	20	1	N
Oils and Grease	mg/L	Monthly	0	10	2.2	N

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	363	240	232	N
Daily TSS	kg/day	daily	24	0	3.73	1.08	1.21	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre