



Orica Kooragang Island Monitoring Point 31

Details of Licence Conditions

EPA Licence No: 828
 Licensee Name: ORICA AUSTRALIA PTY LTD
 Licensee Address: 15 Greenleaf Rd, KOORAGANG NSW 2304

Annual Summary

Soil Monitoring - Main Transpiration Area

Monitoring Point	Monitoring Location	Pollutant	Unit of measure	Monitoring frequency	Annual Return Period				
					2016/2017 (6/2/2017)	2017/2018 (23/01/2018)	2018/2019 (21/01/2019)	2019/2020 (14/01/2020)	2020/2021 (12/01/2021)
Monitoring Point 31	Main Transpiration Area	Bray phosphorus	milligrams per kilogram	yearly	78.1	64.4	64.2	15.8	50.35
Monitoring Point 31	Main Transpiration Area	Cation Exchange Capacity	centimoles of positive charge per kilogram of soil	yearly	2	4.1	0.7	0.8	0.2
Monitoring Point 31	Main Transpiration Area	Chloride	milligrams per kilogram	yearly	<10	15	15	15	<10
Monitoring Point 31	Main Transpiration Area	Colwell phosphorus	milligrams per kilogram	yearly	57	139	130	118	176
Monitoring Point 31	Main Transpiration Area	Conductivity	deciSiemens per metre	yearly	0.132	0.178	0.1955	0.318	0.092
Monitoring Point 31	Main Transpiration Area	Exchangeable calcium	centimoles of positive charge per kilogram of soil	yearly	1.4	0.3	0.5	0.6	0.1
Monitoring Point 31	Main Transpiration Area	Exchangeable magnesium	centimoles of positive charge per kilogram of soil	yearly	0.3	<0.1	<0.1	0.2	<0.1
Monitoring Point 31	Main Transpiration Area	Exchangeable potassium	centimoles of positive charge per kilogram of soil	yearly	<0.1	<0.1	<0.1	<0.1	<0.1
Monitoring Point 31	Main Transpiration Area	Exchangeable sodium	centimoles of positive charge per kilogram of soil	yearly	0.2	<0.1	<0.1	<0.1	<0.1
Monitoring Point 31	Main Transpiration Area	Moisture	percent	yearly	7.3	4.4	3.85	4.6	6.65
Monitoring Point 31	Main Transpiration Area	Nitrate	milligrams per kilogram	3 years	60	64.3	N/A	177	19.1
Monitoring Point 31	Main Transpiration Area	Nitrogen (total)	milligrams per kilogram	3 years	645	730	N/A	1185	405
Monitoring Point 31	Main Transpiration Area	Nitrogen Oxides	milligrams per kilogram	3 years	60	64.3	N/A	N/A	19.1
Monitoring Point 31	Main Transpiration Area	pH	pH	yearly	4.2	4.2	2.9	4.15	3.8
Monitoring Point 31	Main Transpiration Area	Phosphorus (total)	milligrams per kilogram	3 years	267	284	N/A	332	269.5
Monitoring Point 31	Main Transpiration Area	Phosphorus Sorption Capacity	milligrams per kilogram	3 years	<250	<250	N/A	<250	584
Monitoring Point 31	Main Transpiration Area	Total Kjeldahl Nitrogen	milligrams per kilogram	3 years	585	665	N/A	1110	385
Date Published					6/03/2017	9/03/2018	13/05/2019	14/02/2020	10/02/2021

Note - The reported result is the average of the 2 soil samples collected from between 0-0.3m and 0.3-0.6m as required under Condition M2.4 of the EPL