Benedict Industries Pty Limited

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

Water Monitoring Requirements:

Grab samples are required to be taken annually.

Location of Monitoring Points:

Monitoring Point 11: Boreholes labelled on map titled "Location Plan" submitted to the EPA and included in the EPL on 8 June 2023.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	Testing Result 5/7/2023
Alkalinity (as $CaCO_3$)	mg/L	*No limits apply - sampling for monitoring purposes only*	185
Aluminium (Al)	mg/L		<0.1
Arsenic (As)	mg/L		0.01
Barium (Ba)	mg/L		0.1
Cadmium (Cd)	mg/L		<0.001
Chromium (Cr)	mg/L		<0.01
Conductivity	uS/cm		11100
Copper (Cu)	mg/L		<0.01
Iron (Fe)	mg/L		0.03
Lead (Pb)	mg/L		<0.01
Manganese (Mn)	mg/L		0.43
Mercury (Hg)	mg/L		<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		0.16
Nitrogen-Ammonia	mg/L		1.2
Organochlorine Pesticides	ug/L		<0.2
Phenols	mg/L		<0.1
Polycyclic Aromatic Hydrocarbons	ug/L		<2
Selenium (Se)	mg/L		<0.01
Total Dissolved Solids	mg/L		7280
Total Organic Carbon	mg/L		8
Total Petroleum Hydrocarbons	ug/L		<100
Zinc (Zn)	mg/L		<0.01
pH	pH		7.6

Sampling frequency
Annually

EPL Clause M2.3

As an indicator of the potential for acidification the ratio of chloride to sulfate must also be calculated and reported to the EPA for each of the samples required by the above monitoring table.

Pollutant	Unit of Measure	100 Percentile Concentration Limit	Testing Result 5/7/2023
Chloride	mg/L	*No limits apply - sampling for monitoring purposes only*	2590
Sulphate	mg/L		350
Chloride/Sulphate ratio			1 to 0.14

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Water Monitoring Requirements:

Grab samples are required to be taken annually.

Location of Monitoring Points:

Monitoring Point 12: Boreholes labelled on map titled "Location Plan" submitted to the EPA and included in the EPL on 8 June 2023.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	Testing Result 5/7/2023
Alkalinity (as $CaCO_3$)	mg/L	*No limits apply - sampling for monitoring purposes only*	170
Aluminium (Al)	mg/L		<0.1
Arsenic (As)	mg/L		<0.01
Barium (Ba)	mg/L		0.1
Cadmium (Cd)	mg/L		<0.001
Chromium (Cr)	mg/L		<0.01
Conductivity	uS/cm		11400
Copper (Cu)	mg/L		<0.01
Iron (Fe)	mg/L		0.01
Lead (Pb)	mg/L		<0.01
Manganese (Mn)	mg/L		0.34
Mercury (Hg)	mg/L		<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		0.1
Nitrogen-Ammonia	mg/L		1.5
Organochlorine Pesticides	ug/L		<0.2
Phenols	mg/L		<0.1
Polycyclic Aromatic Hydrocarbons	ug/L		<2
Selenium (Se)	mg/L		<0.01
Total Dissolved Solids	mg/L		7480
Total Organic Carbon	mg/L		8
Total Petroleum Hydrocarbons	ug/L		<100
Zinc (Zn)	mg/L		<0.01
pH	pH		7.4

Sampling frequency
Annually

EPL Clause M2.3

As an indicator of the potential for acidification the ratio of chloride to sulfate must also be calculated and reported to the EPA for each of the samples required by the above monitoring table.

Pollutant	Unit of Measure	100 Percentile Concentration Limit	Testing Result 5/7/2023
Chloride	mg/L	*No limits apply - sampling for monitoring purposes only*	2720
Sulphate	mg/L		370
Chloride/Sulphate ratio			1 to 0.14

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EPA Licence No: 4612

Water Monitoring Requirements:

Grab samples are required to be taken annually.

Location of Monitoring Points:

Monitoring Point 13: Boreholes labelled on map titled "Location Plan" submitted to the EPA and included in the EPL on 8 June 2023.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	Testing Result 5/7/2023
Alkalinity (as $CaCO_3$)	mg/L	*No limits apply - sampling for monitoring purposes only*	74
Aluminium (Al)	mg/L		<0.1
Arsenic (As)	mg/L		<0.01
Barium (Ba)	mg/L		0.1
Cadmium (Cd)	mg/L		<0.001
Chromium (Cr)	mg/L		<0.01
Conductivity	uS/cm		22900
Copper (Cu)	mg/L		<0.01
Iron (Fe)	mg/L		<0.01
Lead (Pb)	mg/L		<0.01
Manganese (Mn)	mg/L		0.05
Mercury (Hg)	mg/L		<0.0001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		0.17
Nitrogen-Ammonia	mg/L		<0.1
Organochlorine Pesticides	ug/L		<0.2
Phenols	mg/L		<0.1
Polycyclic Aromatic Hydrocarbons	ug/L		<2
Selenium (Se)	mg/L		<0.01
Total Dissolved Solids	mg/L		14900
Total Organic Carbon	mg/L		<1
Total Petroleum Hydrocarbons	ug/L		<100
Zinc (Zn)	mg/L		<0.01
pH	pH		7.4

Sampling frequency
Annually

EPL Clause M2.3

As an indicator of the potential for acidification the ratio of chloride to sulfate must also be calculated and reported to the EPA for each of the samples required by the above monitoring table.

Pollutant	Unit of Measure	100 Percentile Concentration Limit	Testing Result 5/7/2023
Chloride	mg/L	*No limits apply - sampling for monitoring purposes only*	5690
Sulphate	mg/L		720
Chloride/Sulphate ratio			1 to 0.13