

Eastland Port Ltd

Matawhero Yard

Sump Tile Drainage and Groundwater Monitoring Report (twice annually)

1. Sampling Details

Location	Date	Time
Sump Tile Drainage	02/03/2015	14:18
SE Well	02/03/2015	10:22
NW Well	02/03/2015	12:23

2. Relevant Site information

Location	Rainfall (event and 4 days previous)	Discharge/water colour	Obvious or visual features
Sump Tile Drainage	n/a	Clear	Debris present, light organic matter
SE Well	n/a	Clear	No odour
NW Well	n/a	Clear	No odour

3. Sampling Results

Parameter	Units	Sump Tile Drainage	SE Well (MLY GW01)	NW Well (MLY GW02)
pH	-LOG(H ⁺)	7.91	6.81	6.88
Conductivity	Umhos/cm	2.043	896	942
Total Petroleum Hydrocarbons	g/m ³	<0.7	<0.1	<0.1
Total Resin Acids	g/m ³	<0.0001	<0.0001	<0.0001
Total Nitrogen	g/m ³	1.46	0.35	0.23

4. Evaluation of Laboratory Results

Parameter	Consent Limit (as measured at the sump tile drainage outlet)	Limit (as measured at the sump tile drainage outlet)	Units	Sump Tile Drainage with limit exceedences highlighted
pH	6.5 – 8.5	6.5-8.5	-LOG(H ⁺)	7.91
Conductivity	0.3 above background	866.3	Umhos/cm	2.043
Total Petroleum Hydrocarbons	15	15	g/m ³	<0.7
Total Resin Acids	0.06 above background	n/a	g/m ³	<0.0001
Total Nitrogen	0.6 above background	1.49	g/m ³	1.46

5. Findings on Consent Condition Compliance

All results at the sump tile drainage outlet were below the consent trigger limits. No trigger level is available for total resin acids as no background samples were collected. However total resin acids were not detected in the sample with a detection limit of 0.0001 g/m³.

6. Any Further Actions Required in Light of Findings

As no exceedences of the trigger limits occurred no further actions are required. The next round of sampling will occur in August.