

Annual Return : B2 Concentration Monitoring Summary

Licence No: 123 Reg

All fields marked with an asterisk (*) are mandatory

For each monitoring point identified in your licence you must complete all the details for each pollutant listed. Click Add+ to question 'Do you have a file with the required data you want to upload?'.

Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by the licence.

Do you have a concentration monitoring summary file you need to upload? *

Yes No

Monitoring Point 1

Surface gas monitoring, Less than 51 mm from the surface of the landfill - wind speed less than 2.8 m/s

Pollutant	Unit of Measure	No. of Samples Required*	Lower Limit
methane	parts per million	4	0

Monitoring Point 13

Surface water quality. A surface depression on the western side of the landfill containing water which

Pollutant	Unit of Measure	No. of Samples Required*	Lower Limit
Alkalinity (as calcium carbonate)	milligrams per litre	refer to M2.3 of the EPL license	330
BOD	milligrams per litre	refer to M2.3 of the EPL license	7.5
Cadmium	milligrams per litre	refer to M2.3 of the EPL license	nd
Calcium	milligrams per litre	refer to M2.3 of the EPL license	67
Chloride	milligrams per litre	refer to M2.3 of the EPL license	313
Chromium	milligrams per litre	refer to M2.3 of the EPL license	nd
Conductivity	microsiemens per centimetre	refer to M2.3 of the EPL license	3396
Copper	milligrams per litre	refer to M2.3 of the EPL license	0.003
Fluoride	milligrams per litre	refer to M2.3 of the EPL license	1.2
Iron	milligrams per litre	refer to M2.3 of the EPL license	0.46
Lead	milligrams per litre	refer to M2.3 of the EPL license	nd
Magnesium	milligrams per litre	refer to M2.3 of the EPL license	39
Manganese	milligrams per litre	refer to M2.3 of the EPL license	0.997
Nitrogen	milligrams per litre	refer to M2.3 of the EPL license	1600
Nitrogen (ammonia)	milligrams per litre	refer to M2.3 of the EPL license	0.06
pH	pH	refer to M2.3 of the EPL license	7.56
Phosphorus (total)	milligrams per litre	refer to M2.3 of the EPL license	0.17
Potassium	milligrams per litre	refer to M2.3 of the EPL license	18
Redox potential	millivolts	refer to M2.3 of the EPL license	-11.4
Sodium	milligrams per litre	refer to M2.3 of the EPL license	260
Standing Water Level	metres	refer to M2.3 of the EPL license	-
Sulfate	milligrams per litre	refer to M2.3 of the EPL license	nd
Temperature	degrees Celsius	refer to M2.3 of the EPL license	23.8
Total dissolved solids	milligrams per litre	refer to M2.3 of the EPL license	1100
Total Kjeldahl Nitrogen	milligrams per litre	refer to M2.3 of the EPL license	1.6
Total organic carbon	milligrams per litre	refer to M2.3 of the EPL license	75
Total Phenolics	milligrams per litre	refer to M2.3 of the EPL license	nd
Total suspended solids	milligrams per litre	refer to M2.3 of the EPL license	33
Zinc	milligrams per litre	refer to M2.3 of the EPL license	nd

Monitoring Point 20

Leachate chemical composition and height, DW1 as depicted in figure 3.1 in the Landfill Closure Plan,

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	
Lead	milligrams per litre	1	
Magnesium	milligrams per litre	4	
Manganese	milligrams per litre	1	
Nitrogen	milligrams per litre	4	
Nitrogen (ammonia)	milligrams per litre	4	
pH	pH	4	
Phosphorus (total)	milligrams per litre	1	
Potassium	milligrams per litre	4	
Redox potential	millivolts	4	
Sodium	milligrams per litre	4	
Standing Water Level	metres	4	
Sulfate	milligrams per litre	4	
Temperature	degress Celsius	4	
Total dissolved solids	milligrams per litre	4	
Total KjeldahlNitrogen	milligrams per litre	4	
Total organic carbon	milligrams per litre	4	
Total Phenolics	milligrams per litre	1	
Total suspendedsolids	milligrams per litre	4	
Zinc	milligrams per litre	1	

Monitoring Point 21

Leachate chemical composition and height, **DW3** as depicted in figure 3.1 in the Landfill Closure Plan,

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	
Lead	milligrams per litre	1	
Magnesium	milligrams per litre	4	
Manganese	milligrams per litre	1	
Nitrogen	milligrams per litre	4	

Nitrogen (ammonia)	milligrams per litre	4		
pH	pH	4		
Phosphorus (total)	milligrams per litre	1		
Potassium	milligrams per litre	4		
Redox potential	millivolts	4		
Sodium	milligrams per litre	4		
Standing Water Level	metres	4		
Sulfate	milligrams per litre	4		
Temperature	degrees Celsius	4		
Total dissolved solids	milligrams per litre	4		
Total Kjeldahl Nitrogen	milligrams per litre	4		
Total organic carbon	milligrams per litre	4		
Total Phenolics	milligrams per litre	1		
Total suspended solids	milligrams per litre	4		
Zinc	milligrams per litre	1		

Discharge & Monitoring Point 27

Discharge and monitoring point from the sediment dam., The position of the discharge & monitoring

Pollutant	Unit of Measure	No. of Samples Required*	Lowest
Conductivity	microsiemens per centimetre	22	
pH	-	22	
TSS	milligrams per litre	21	
Turbidity	milligrams per litre	22	

Discharge & Monitoring Point 28

Overflow discharge and monitoring point from the sediment dam., The overflow discharge and monitoring

Pollutant	Unit of Measure	No. of Samples Required*	Lowest
Conductivity	microsiemens per centimetre	0	
pH	-	0	
TSS	milligrams per litre	0	
Turbidity	milligrams per litre	0	

Discharge & Monitoring Point 31

Overflow discharge and monitoring location, The overflow discharge and monitoring point serving Da

Pollutant	Unit of Measure	No. of Samples Required*	Lowest
Conductivity	microsiemens per centimetre	0	
pH	-	0	
TSS	milligrams per litre	0	
Turbidity	milligrams per litre	0	

Monitoring Point 32

Sub-surface gas monitoring, GM1 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (2

Pollutant	Unit of Measure	No. of Samples Required*	Lowest
Carbondioxide	milligrams per cubic metre	4	

Methane	milligrams percubic metre	4
Oxygen(O2)	milligrams percubic metre	4

Monitoring Point 33

Sub-surface gas monitoring, GM3 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (2

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 34

Sub-surface gas monitoring, GM4 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (2

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 35

Sub-surface gas monitoring, GM6 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (2

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 36

Sub-surface gas monitoring, GM7 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (2

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 37

Sub-surface gas monitoring, GM8 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (2

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 38

Sub-surface gas monitoring, GM9 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (2

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 39

Sub-surface gas monitoring, GM10 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 40

Sub-surface gas monitoring, GM12 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 41

Sub-surface gas monitoring, GM13 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 42

Sub-surface gas monitoring, GM13A as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 43

Sub-surface gas monitoring, GM14 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 44

Sub-surface gas monitoring, GM15 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 45

Sub-surface gas monitoring, GM15A as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 46

Sub-surface gas monitoring, GM17 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 47

Sub-surface gas monitoring, GM18 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 48

Sub-surface gas monitoring, GM20 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 49

Sub-surface gas monitoring, GM21 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	

Methane	milligrams percubic metre	4
Oxygen(O2)	milligrams percubic metre	4

Monitoring Point 50

Sub-surface gas monitoring, GM22 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 51

Sub-surface gas monitoring, GM23 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 52

Sub-surface gas monitoring, GM25 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 53

Sub-surface gas monitoring, GM26 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 54

Sub-surface gas monitoring, GM27 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 55

Sub-surface gas monitoring, GM28 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 56

Sub-surface gas monitoring, GM29 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 57

Sub-surface gas monitoring, GM30 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 58

Sub-surface gas monitoring, GM31 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 59

Sub-surface gas monitoring, GM32 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 60

Sub-surface gas monitoring, GM33 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 61

Sub-surface gas monitoring, GM34 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 62

Sub-surface gas monitoring, GM35 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 63

Sub-surface gas monitoring, GM36 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 64

Sub-surface gas monitoring, GM37 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 65

Sub-surface gas monitoring, GM38 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 66

Sub-surface gas monitoring, GM39 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	

Oxygen(O2)	milligrams percubic metre	4
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Monitoring Point 67

Sub-surface gas monitoring, GM40 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 68

Sub-surface gas monitoring, GM41 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 69

Sub-surface gas monitoring, GM42 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 70

Sub-surface gas monitoring, GM44 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 71

Sub-surface gas monitoring, LG8 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (29

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 72

Sub-surface gas monitoring, LG9 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (29

Pollutant	Unit of Measure	No. of Samples Required*	Lower
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 73

Sub-surface gas monitoring, LG10 as shown in Figure 2 of the Landfill Monitoring Plan by ERM 2021 (2

Pollutant	Unit of Measure	No. of Samples Required*	Lower
Carbondioxide	milligrams percubic metre	4	
Methane	milligrams percubic metre	4	
Oxygen(O2)	milligrams percubic metre	4	

Monitoring Point 74

Groundwater chemical composition, OW1 as shown in Figure 2 of the Landfill Monitoring Plan by ERM

Pollutant	Unit of Measure	No. of Samples Required*	Lower
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	
Lead	milligrams per litre	1	
Magnesium	milligrams per litre	4	
Manganese	milligrams per litre	1	
Nitrogen	milligrams per litre	4	
Nitrogen (ammonia)	milligrams per litre	4	
pH	pH	4	
Phosphorus (total)	milligrams per litre	1	
Potassium	milligrams per litre	4	
Redox potential	millivolts	4	
Sodium	milligrams per litre	4	
Standing Water Level	metres	4	
Sulfate	milligrams per litre	4	
Temperature	degress Celsius	4	
Total dissolved solids	milligrams per litre	4	
Total KjeldahlNitrogen	milligrams per litre	4	
Total organic carbon	milligrams per litre	4	
Total Phenolics	milligrams per litre	1	
Total suspendedsolids	milligrams per litre	4	
Zinc	milligrams per litre	1	

Monitoring Point 75

Groundwater chemical composition, OW2 as shown in Figure 2 of the Landfill Monitoring Plan by ERN

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	
Lead	milligrams per litre	1	
Magnesium	milligrams per litre	4	
Manganese	milligrams per litre	1	
Nitrogen	milligrams per litre	4	
Nitrogen (ammonia)	milligrams per litre	4	
pH	pH	4	
Phosphorus (total)	milligrams per litre	1	
Potassium	milligrams per litre	4	
Redox potential	millivolts	4	
Sodium	milligrams per litre	4	
Standing Water Level	metres	4	
Sulfate	milligrams per litre	4	
Temperature	degrees Celsius	4	
Total dissolved solids	milligrams per litre	4	
Total Kjeldahl Nitrogen	milligrams per litre	4	
Total organic carbon	milligrams per litre	4	
Total Phenolics	milligrams per litre	1	
Total suspended solids	milligrams per litre	4	
Zinc	milligrams per litre	1	

Monitoring Point 76

Groundwater chemical composition, OW4B as shown in Figure 2 of the Landfill Monitoring Plan by ER

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	
Lead	milligrams per litre	1	
Magnesium	milligrams per litre	4	
Manganese	milligrams per litre	1	

Nitrogen	milligrams per litre	4
Nitrogen (ammonia)	milligrams per litre	4
pH	pH	4
Phosphorus (total)	milligrams per litre	1
Potassium	milligrams per litre	4
Redox potential	millivolts	4
Sodium	milligrams per litre	4
Standing Water Level	metres	4
Sulfate	milligrams per litre	4
Temperature	degrees Celsius	4
Total dissolved solids	milligrams per litre	4
Total Kjeldahl Nitrogen	milligrams per litre	4
Total organic carbon	milligrams per litre	4
Total Phenolics	milligrams per litre	1
Total suspended solids	milligrams per litre	4
Zinc	milligrams per litre	1

Monitoring Point 77

Groundwater chemical composition, OW5A as shown in Figure 2 of the Landfill Monitoring Plan by ER

Pollutant	Unit of Measure	No. of Samples Required*	Lowest
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	
Lead	milligrams per litre	1	
Magnesium	milligrams per litre	4	
Manganese	milligrams per litre	1	
Nitrogen	milligrams per litre	4	
Nitrogen (ammonia)	milligrams per litre	4	
pH	pH	4	
Phosphorus (total)	milligrams per litre	1	
Potassium	milligrams per litre	4	
Redox potential	millivolts	4	
Sodium	milligrams per litre	4	
Standing Water Level	metres	4	
Sulfate	milligrams per litre	4	
Temperature	degrees Celsius	4	
Total dissolved solids	milligrams per litre	4	
Total Kjeldahl Nitrogen	milligrams per litre	4	
Total organic carbon	milligrams per litre	4	
Total Phenolics	milligrams per litre	1	
Total suspended solids	milligrams per litre	4	
Zinc	milligrams per litre	1	

Monitoring Point 78

Groundwater chemical composition, OW6 as shown in Figure 2 of the Landfill Monitoring Plan by ERN

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	
Lead	milligrams per litre	1	
Magnesium	milligrams per litre	4	
Manganese	milligrams per litre	1	
Nitrogen	milligrams per litre	4	
Nitrogen (ammonia)	milligrams per litre	4	
pH	pH	4	
Phosphorus (total)	milligrams per litre	1	
Potassium	milligrams per litre	4	
Redox potential	millivolts	4	
Sodium	milligrams per litre	4	
Standing Water Level	metres	4	
Sulfate	milligrams per litre	4	
Temperature	degrees Celsius	4	
Total dissolved solids	milligrams per litre	4	
Total Kjeldahl Nitrogen	milligrams per litre	4	
Total organic carbon	milligrams per litre	4	
Total Phenolics	milligrams per litre	1	
Total suspended solids	milligrams per litre	4	
Zinc	milligrams per litre	1	

Monitoring Point 79

Groundwater chemical composition, OW7 as shown in Figure 2 of the Landfill Monitoring Plan by ERN

Pollutant	Unit of Measure	No. of Samples Required*	Lowes
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	

Lead	milligrams per litre	1
Magnesium	milligrams per litre	4
Manganese	milligrams per litre	1
Nitrogen	milligrams per litre	4
Nitrogen (ammonia)	milligrams per litre	4
pH	pH	4
Phosphorus (total)	milligrams per litre	1
Potassium	milligrams per litre	4
Redox potential	millivolts	4
Sodium	milligrams per litre	4
Standing Water Level	metres	4
Sulfate	milligrams per litre	4
Temperature	degrees Celsius	4
Total dissolved solids	milligrams per litre	4
Total Kjeldahl Nitrogen	milligrams per litre	4
Total organic carbon	milligrams per litre	4
Total Phenolics	milligrams per litre	1
Total suspended solids	milligrams per litre	4
Zinc	milligrams per litre	1

Monitoring Point 80

Groundwater chemical composition, OW8 as shown in Figure 2 of the Landfill Monitoring Plan by ERN

Pollutant	Unit of Measure	No. of Samples Required*	Lowest
Alkalinity (as calcium carbonate)	milligrams per litre	4	
BOD	milligrams per litre	4	
Cadmium	milligrams per litre	1	
Calcium	milligrams per litre	4	
Chloride	milligrams per litre	4	
Chromium	milligrams per litre	1	
Conductivity	microsiemens per centimetre	4	
Copper	milligrams per litre	1	
Fluoride	milligrams per litre	1	
Iron	milligrams per litre	1	
Lead	milligrams per litre	1	
Magnesium	milligrams per litre	4	
Manganese	milligrams per litre	1	
Nitrogen	milligrams per litre	4	
Nitrogen (ammonia)	milligrams per litre	4	
pH	pH	4	
Phosphorus (total)	milligrams per litre	1	
Potassium	milligrams per litre	4	
Redox potential	millivolts	4	
Sodium	milligrams per litre	4	
Standing Water Level	metres	4	
Sulfate	milligrams per litre	4	
Temperature	degrees Celsius	4	
Total dissolved solids	milligrams per litre	4	
Total Kjeldahl Nitrogen	milligrams per litre	4	
Total organic carbon	milligrams per litre	4	

Total Phenolics	milligrams per litre	1
Total suspendedsolids	milligrams per litre	4
Zinc	milligrams per litre	1

Reporting Period: 31/08/2022 - 30/08/2023 | Status: Final

commence adding concentration monitoring details. Note that the cells in this table accept text as well as numbers to allow for instarred by load-based licensing (if applicable).

/s in a 25m grid across the landfill as specified in the Landfill Monitoring Plan by ERM (29 June 2021)

Sample value*	Mean of Sample*	Highest Sample Value*
	1.1	42.1

may be discharged onto the premises owned by Jacfin Pty Ltd

Sample value*	Mean of Sample*	Highest Sample Value*
460		590
21.75		36
nd		nd
74.5		82
386.5		460
0.0005		0.001
3396		3396
0.0045		0.006
1.2		1.2
0.53		0.6
nd		nd
41		43
1.0985		1.2
2100		2600
0.09		0.12
8.2		8.84
0.23		0.29
24		30
-11.4		-11.4
288		316
-		-
12.5		25
23.8		23.8
1140		1180
2.1		2.6
75.5		76
nd		nd
2556.5		5080
0.005		0.01

st Sample value*	Mean of Sample*	Highest Sample Value*
950	1275	1600
nd	51	51
nd	nd	nd
77	97.5	118
2440	3120	3800
0.002	0.0025	0.003
7802	9211	10620
nd	0.002	0.002
nd	0.3	0.3
0.16	0.68	1.2
nd	nd	nd
83	104.5	126
0.066	0.0725	0.079
49	94.5	140
93	112	131
7.17	7.49	7.81
0.09	0.935	1.78
120	18	162
-112.1	-31.15	49.8
1200	1470	1740
11.625	11.625	11.625
nd	26	26
27.7	30.55	33.4
5390	5695	6000
49	94.5	140
75	102.5	130
nd	nd	nd
18	28	38
nd	nd	nd

April 1999 - by Egis Consulting Australia Pty Ltd

st Sample value*	Mean of Sample*	Highest Sample Value*
1200	1670	1900
nd	14	25
nd	nd	nd
212	230.75	260
1200	1535	1800
0.018	0.02	0.022
7395	8513.75	9544
nd	nd	nd
0.5	0.8	1.3
nd	0.13	0.32
nd	nd	nd
90	99.25	110
0.387	0.395	0.4
194	266.5	350

187	219.5	260
6.99	7.38	7.77
0.99	1.04	1.09
256	275	294
-314.9	-250.75	-186.6
789	909.5	1030
7.672	7.672	nd
362	621	880
27.9	31.75	35.6
4030	4565	5100
194	272	350
203	239	275
nd	130	130
12	19	26
nd	nd	nd

point is via the pipe serving the sediment dam located at gridreference 298619, 6254832 , supplied by the lic

st Sample value*	Mean of Sample*	Highest Sample Value*
71.5	712.6	1050
7.1	8.4	9.5
23	2907.2	9760
32	3463	11960

oring point serving the sediment dam is located at grid reference298590, 6254829 provided by the licensee c

st Sample value*	Mean of Sample*	Highest Sample Value*
0	0	0
0	0	0
0	0	0
0	0	0

m 7, located at E 298513 N 6254658. Refer to email from PGH on20 April 2020 (DOC19/938854-4)

st Sample value*	Mean of Sample*	Highest Sample Value*
0	0	0
0	0	0
0	0	0
0	0	0

!9 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
1	10.2	19.4

2.4	35.85	69.3
4.7	12.85	21

!9 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	2.4	4.7
0	0	0
16.6	18.75	20.9

!9 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	0.4	0.7
0	0.15	0.3
20.4	20.8	21.2

!9 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0	1.1	2.2
0	0	0
19.4	20.6	21.8

!9 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0	0.75	1.5
0	0	0
18.9	20.05	21.2

!9 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.5	2.95	5.4
0	0	0
17.6	19.2	20.8

!9 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.3	2.1	3.9
0	0	0
17.8	19.5	21.2

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	9	17.9
0	5	10
9.9	15.65	21.4

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	2.6	5.1
0	0	0
16.7	18.9	21.1

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0	3.7	7.4
0	0	0
15.1	18	20.9

l (29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
2.9	5.6	8.3
0	0	0
13.9	15.75	17.6

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0	2.1	4.2
0	0	0
18.1	19.55	21

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.7	3.55	6.4
0	0	0
14.3	17.3	20.3

l (29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	0.15	0.2
0	0	0
20.6	20.9	21.2

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.2	1.3	2.4
0	0	0
19.3	20.4	21.5

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.6	1.35	2.1
0	0	0
19.1	20.15	21.2

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.3	4.95	9.6
0	0	0
11.7	16.5	21.3

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	0.8	1.5

0
19.4

0
20.2

0
21

(29 June 2021)

st Sample value*
0.4
0
10.3

Mean of Sample*
5.3
1.3
15.7

Highest Sample Value*
10.2
2.6
21.1

(29 June 2021)

st Sample value*
0.1
0
18.2

Mean of Sample*
1.7
0
19.9

Highest Sample Value*
3.3
0
21.6

(29 June 2021)

st Sample value*
0.6
0
6.3

Mean of Sample*
9.05
0
13.7

Highest Sample Value*
17.5
0
21.1

(29 June 2021)

st Sample value*
0.5
0
6.5

Mean of Sample*
4.9
0
13.95

Highest Sample Value*
9.3
0
21.4

(29 June 2021)

st Sample value*
1.3
0
15.2

Mean of Sample*
4.5
0
18

Highest Sample Value*
7.7
0
20.8

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	9.2	18.3
0	8.4	16.8
0	11.2	22.4

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.7	5.9	11.1
0	0.5	1
2	11.6	21.2

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.9	1.95	3
0	0	0
17.5	18.7	19.9

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
1	4.3	7.6
0	0	0
13.8	17.1	20.4

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	0.4	0.7
0	0	0
20.5	20.9	21.3

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.4	0.55	0.7
0	0	0
19.9	20.6	21.3

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
1.4	12.05	22.7
0	0	0
2.3	11.2	20.1

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.6	9.95	19.3
0	0	0
6.8	13.5	20.2

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.3	10.35	20.4
0	0	0
2.3	11.55	20.8

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
2.2	7.9	13.6
0	0	0
3.9	11.6	19.3

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.3	9.45	18.6
0	0	0
0.2	11.1	22

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
4.6	11.3	18
0	0	0

0.3

8.7

17.1

(29 June 2021)

1st Sample value*

Mean of Sample*

Highest Sample Value*

2

10.8

19.6

0

0

0

8.7

14.2

19.7

(29 June 2021)

1st Sample value*

Mean of Sample*

Highest Sample Value*

1.6

6.1

10.6

0

0

0

14.7

17.45

20.2

(29 June 2021)

1st Sample value*

Mean of Sample*

Highest Sample Value*

0.3

18.75

37.2

0

0

0

1.5

11.35

21.2

(29 June 2021)

1st Sample value*

Mean of Sample*

Highest Sample Value*

0.2

1.35

2.5

0

0

0

18

19.7

21.4

(29 June 2021)

1st Sample value*

Mean of Sample*

Highest Sample Value*

0.9

1.35

1.8

0

0

0

19.3

20.05

20.8

(29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.1	2.25	4.4
0	0	0
20	20.55	21.1

29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
0.8	2.65	4.5
0	0	0
15.3	17.85	20.4

4 2021 (29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
216	598	980
2	3	4
nd	nd	nd
30	160.5	291
569	2919.5	5270
nd	nd	nd
12.23	6139.615	12267
0.001	0.0015	0.002
nd	0.3	0.3
0.51	0.905	1.3
nd	nd	nd
21	218	415
0.405	1.2025	2
0.8	1.5	2.2
0.05	0.22	0.39
6.52	6.915	7.31
0.16	0.16	0.16
8	15	22
-129.48	-72.29	-15.1
363	1446.5	2530
6.908	7.4875	8.067
77	200.5	324
16.4	20.15	23.9
1380	5325	9270
0.8	1.5	2.2
13	29.5	46
nd	nd	nd
89	259	429
nd	nd	nd

1 2021 (29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
320	425.5	531
nd	5	5
nd	nd	nd
86	110.5	135
2000	3440	4880
0.001	0.001	0.001
10.85	6640.925	13271
0.003	0.0035	0.004
0.2	0.4	0.6
nd	0.53	0.53
nd	nd	nd
270	332	394
0.019	1.0295	2.04
0.3	0.55	0.8
0.04	0.045	0.05
6.53	7.13	7.73
0.11	0.11	0.11
12	13.5	15
-170.4	-28.6	113.2
2100	2310	2520
4.586	5.1	5.614
240	402	564
18.4	23.45	28.5
6500	7650	8800
0.3	0.55	0.8
6	10.5	15
nd	nd	nd
7.8	28.4	49
nd	0.008	0.008

.M 2021 (29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
740	910	1080
nd	3	3
nd	nd	nd
230	255	280
160	2930	5700
nd	nd	nd
15.403	7885.7015	15756
nd	0.002	0.002
nd	0.2	0.2
nd	0.24	0.24
nd	nd	nd
310	345	380
0.12	0.19	0.26

1.2	3.25	5.3
0.38	0.685	0.99
6.34	6.895	7.45
0.02	0.115	0.21
19	21.5	24
-97.8	-38	21.8
2700	3050	3400
8.074	8.229	8.384
45	223.5	402
22.2	23.7	25.2
6400	8400	10400
1.2	3.25	5.3
2	8.5	15
nd	nd	nd
21	205.5	390
nd	nd	nd

IM 2021 (29 June 2021)

1st Sample value*	Mean of Sample*	Highest Sample Value*
770	900	1030
nd	5	5
nd	0.0001	0.0001
250	266	282
3580	3940	4300
nd	nd	nd
10.68	5941.84	11873
nd	0.002	0.002
2.38	4.035	5.69
nd	0.08	0.08
nd	nd	nd
220	235.5	251
3.44	3.82	4.2
0.2	0.95	1.7
nd	0.03	0.03
6.38	6.96	7.54
0.06	0.155	0.25
4.7	5.85	7
-139.1	2	143.1
2000	2250	2500
4.918	7.024	9.13
449	514.5	580
19.5	21.7	23.9
6200	7200	8200
0.2	0.95	1.7
nd	41	41
nd	nd	nd
157	1278.5	2400
0.006	0.1155	0.225

1 2021 (29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
590	815	1040
nd	9.5	9.5
nd	nd	nd
210	222	234
5200	5435	5670
nd	0.001	0.001
13.78	8594.39	17175
nd	0.002	0.002
nd	0.2	0.2
nd	3.1	3.1
nd	nd	nd
264	324.5	385
1.7	2.095	2.49
3.7	5.8	7.9
2.9	4.04	5.18
6.38	6.86	7.34
0.08	0.08	0.08
29	31.5	34
-154.8	-6.900000000000001	141
2500	2800	3100
5.543	6.172	6.801
68	244	420
19.2	23.3	27.4
8700	9850	11000
3.7	5.8	7.9
18	56.5	95
nd	nd	nd
31	106.5	182
nd	0.012	0.012

1 2021 (29 June 2021)

st Sample value*	Mean of Sample*	Highest Sample Value*
740	875	1010
17	39.5	62
nd	nd	nd
400	546	692
11700	16850	22000
nd	0.002	0.002
39.65	23852.825	47666
nd	nd	nd
0.2	0.45	0.7
0.17	3.835	7.5

nd	nd	nd
580	709	838
0.24	0.5685	0.897
48	224	400
120	255	390
6.39	6.85	7.31
0.24	0.24	0.24
530	1315	2100
-73.7	-25.5	22.7
4900	6550	8200
1.812	2.404	2.996
nd	210	210
21.1	23.65	26.2
23000	27000	31000
48	224	400
123	162	201
nd	70	70
44	1097	2150
nd	0.01	0.01

1 2021 (29 June 2021)

1st Sample value*	Mean of Sample*	Highest Sample Value*
710	910	1110
nd	8	8
nd	nd	nd
220	252.5	285
5580	6195	6810
nd	nd	nd
20.41	9920.205	19820
nd	0.005	0.005
nd	0.2	0.2
nd	3.7	3.7
nd	nd	nd
390	435	480
0.054	0.187	0.32
0.6	2.2	3.8
0.12	1.795	3.47
6.72	7.195	7.67
0.06	0.06	0.06
27	32	37
-130.8	-74.4	-18
2900	3215	3530
2.681	3.2015	3.722
490	600	710
19.1	21.75	24.4
9900	11450	13000
0.6	2.2	3.8
nd	32	32

nd
20
nd

nd
45.5
0.051

nd
71
0.051

nces where, for example, the sampling requirement for a pollutant is 'continuous'. Alternatively, you can attach a file of the concentr

ensee on 29 March 2010.

on 29 March 2010

refer to M2.3 of the EPL license

ation monitoring details by selecting Yes to the