

# Dorrington Quarry Landfill Site

Revision 1.00

## Landfill closure report

### Background

1.0 Area of the site progressing to definite closure

2.0 Waste stability

3.1 Site infrastructure

3.2 Leachate infrastructure

See Drawing ESSD 7

<b>Phase 1</b>	<b>MP1.1-1.2</b>	Monitoring Point in waste	Design detail on ESSD 7
<b>Phase 2</b>	<b>MP2.1-2.2</b>	Monitoring Point in waste	Design detail on ESSD 7
<b>Perimeter</b>	<b>BH 1-7</b>	Monitoring Borehole outside waste. Combined gas and groundwater	Design detail on ESSD 7

3.3 Leachate infrastructure maintenance

Leachate monitoring infrastructure maintenance: Checking to ensure monitoring points are in place and valves are free from obstruction covered in the ESSD

3.4 Landfill gas infrastructure

3.5 Landfill gas infrastructure maintenance

<b>Phase 1</b>	<b>MP1.1-1.2</b>	Monitoring Point in waste	Design detail on ESSD 7
<b>Phase 2</b>	<b>MP2.1-2.2</b>	Monitoring Point in waste	Design detail on ESSD 7
<b>Perimeter</b>	<b>BH 1-7</b>	Monitoring Borehole outside waste. Combined gas and groundwater	Design detail on ESSD 7

Gas monitoring infrastructure maintenance: Checking to ensure monitoring points are in place and valves are free from obstruction covered in the ESSD

### 3.6 Groundwater infrastructure

<b>Perimeter</b>	<b>BH 1</b>	Perimeter Down Hydraulic Gradient	Level and Quality
<b>Perimeter</b>	<b>BH2</b>	Perimeter Down Hydraulic Gradient	Level
<b>Perimeter</b>	<b>BH 3</b>	Perimeter Down Hydraulic Gradient	Level and Quality
<b>Perimeter</b>	<b>BH 5</b>	Perimeter Down Hydraulic Gradient	Level and Quality

### 3.7 Groundwater infrastructure maintenance

Groundwater monitoring infrastructure maintenance: Checking to ensure monitoring points are in place and valves are free from obstruction covered in the Hydrogeological Risk Assessment HRA

### 3.8 Surface water infrastructure

Surface water monitoring is required under closure only for one year during initial soil restoration works. No discharge off site

<b>Parameter</b>	<b>Landfilling Phase SW1, SW2, SW3</b>		<b>Closure/ Aftercare Phase SW2 only</b>
	<b>Quarterly</b>	<b>Annually</b>	<b>Six Monthly</b>
pH	•	•	•
Electrical conductivity 20°C	•	•	•
Ammoniacal nitrogen	•	•	•
Chloride	•	•	•
COD	•	•	•
DO	•	•	•
Nickel	•	•	•

### 3.9 Surface water infrastructure maintenance

Removal of underground tank for wheel wash and test for contamination and decontaminate area

### 3.10 Cap maintenance

The site does not require an engineered cap as it is an inert landfill site.