

## ProjectDetails

Project Name Walley Landfill Site  
Client Red Industries Ltd  
Model c:\gassim templwalleylfs revised lfg ra inc capping programme 240619\_1 incl trace gas data 2019 190220 new boundary.gss  
Model Date 25/02/2020 12:20:10  
Comments To revise LFG Risk Assessment for permit variation application to increase the annual waste inputs to 400K tonnes  
Start Year 2007  
Operation Period 18  
Simulation Period 151  
Iterations 201

Confined Migration Pathway

## Waste Composition

Year	Composition
<b>2007</b>	England 2000-2010 waste streams Lafarge1b
<i>Newspapers</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(48.5)
Hemi-Cellulose (%)	SINGLE(9.0)
Decomposition (%)	SINGLE(35.0)
<i>Magazines</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(42.3)
Hemi-Cellulose (%)	SINGLE(9.4)
Decomposition (%)	SINGLE(46.0)
<i>Other paper</i>	
Domestic	SINGLE(19.8)
Civic Amenity	SINGLE(3.3)
Commercial	SINGLE(28.8)
Industrial	SINGLE(8.8)
Residues from MRF	SINGLE(30.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(87.4)
Hemi-Cellulose (%)	SINGLE(8.4)
Decomposition (%)	SINGLE(98.0)
<i>Liquid cartons</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Card packaging</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Other card</i>	
Domestic	SINGLE(3.0)
Civic Amenity	SINGLE(11.2)
Commercial	SINGLE(3.3)
Industrial	SINGLE(5.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(11.0)
Decomposition (%)	SINGLE(75.0)
<i>Wood</i>	
Water (%)	SINGLE(0.0)
Cellulose (%)	SINGLE(0.0)
Hemi-Cellulose (%)	SINGLE(0.0)
Decomposition (%)	SINGLE(0.0)
<i>Textiles</i>	
Domestic	SINGLE(3.3)
Civic Amenity	SINGLE(2.3)
Commercial	SINGLE(1.1)
Industrial	SINGLE(0.3)
Water (%)	SINGLE(25.0)
Cellulose (%)	SINGLE(20.0)
Hemi-Cellulose (%)	SINGLE(20.0)
Decomposition (%)	SINGLE(50.0)
<i>Disposable nappies</i>	
Domestic	SINGLE(3.3)
Civic Amenity	SINGLE(2.9)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Other misc. combustibles</i>	
Domestic	SINGLE(0.3)
Civic Amenity	SINGLE(4.2)
Commercial	SINGLE(10.4)
Industrial	SINGLE(17.7)
Residues from MRF	UNIFORM(15.0, 20.0)
Recycling Schemes	SINGLE(25.0)

Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Garden waste</i>	
Domestic	SINGLE(16.0)
Civic Amenity	SINGLE(32.1)
Commercial	SINGLE(9.8)
Industrial	SINGLE(4.7)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(25.7)
Hemi-Cellulose (%)	SINGLE(13.0)
Decomposition (%)	SINGLE(62.0)
<i>Other putrescible</i>	
Domestic	SINGLE(25.6)
Civic Amenity	SINGLE(14.8)
Commercial	SINGLE(10.4)
Industrial	SINGLE(6.8)
Residues from MRF	SINGLE(20.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(55.4)
Hemi-Cellulose (%)	SINGLE(7.2)
Decomposition (%)	SINGLE(76.0)
<i>10mm fines</i>	
Domestic	SINGLE(4.1)
Civic Amenity	SINGLE(1.2)
Commercial	SINGLE(1.9)
Industrial	SINGLE(0.5)
Residues from MRF	SINGLE(10.0)
Water (%)	SINGLE(40.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Sewage sludge</i>	
Sewage Sludge	SINGLE(100.0)
Water (%)	SINGLE(70.0)
Cellulose (%)	SINGLE(14.0)
Hemi-Cellulose (%)	SINGLE(14.0)
Decomposition (%)	SINGLE(75.0)
<i>Composted organic material</i>	
Composted Organic Material	SINGLE(100.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	UNIFORM(7.47, 9.59)
Hemi-Cellulose (%)	UNIFORM(7.47, 9.59)
Decomposition (%)	SINGLE(57.0)
<i>Incinerator ash</i>	
Commercial	SINGLE(0.2)
Industrial	SINGLE(25.5)
Incinerator Ash	SINGLE(100.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	TRIANGULAR(0.5, 0.7, 1.5)
Hemi-Cellulose (%)	TRIANGULAR(0.5, 0.7, 1.5)
Decomposition (%)	SINGLE(57.0)
<i>Non degradable</i>	
Domestic	SINGLE(24.6)
Civic Amenity	SINGLE(28.0)
Commercial	SINGLE(34.1)
Industrial	SINGLE(30.7)
Inert	SINGLE(100.0)
Residues from MRF	UNIFORM(20.0, 40.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(0.0)
Cellulose (%)	SINGLE(0.0)
Hemi-Cellulose (%)	SINGLE(0.0)
Decomposition (%)	SINGLE(0.0)
<i>Calcium Sulphate (%)</i>	
<i>Iron (%)</i>	
<b>2008</b>	England 2000-2010 waste streams Lafarge1b
<b>2009</b>	England 2000-2010 waste streams Lafarge1b
<b>2010</b>	England 2000-2010 waste streams Lafarge1b
<b>2011</b>	England 2011-2013 waste streams Lafarge1b
<i>Newspapers</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(48.5)
Hemi-Cellulose (%)	SINGLE(9.0)
Decomposition (%)	SINGLE(35.0)
<i>Magazines</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(42.3)
Hemi-Cellulose (%)	SINGLE(9.4)
Decomposition (%)	SINGLE(46.0)
<i>Other paper</i>	
Domestic	SINGLE(19.8)
Civic Amenity	SINGLE(3.3)
Commercial	SINGLE(28.8)

Industrial	SINGLE(8.8)
Residues from MRF	SINGLE(30.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(87.4)
Hemi-Cellulose (%)	SINGLE(8.4)
Decomposition (%)	SINGLE(98.0)
<i>Liquid cartons</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Card packaging</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Other card</i>	
Domestic	SINGLE(3.0)
Civic Amenity	SINGLE(11.2)
Commercial	SINGLE(3.3)
Industrial	SINGLE(5.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(11.0)
Decomposition (%)	SINGLE(75.0)
<i>Wood</i>	
Water (%)	SINGLE(0.0)
Cellulose (%)	SINGLE(0.0)
Hemi-Cellulose (%)	SINGLE(0.0)
Decomposition (%)	SINGLE(0.0)
<i>Textiles</i>	
Domestic	SINGLE(3.3)
Civic Amenity	SINGLE(2.3)
Commercial	SINGLE(1.1)
Industrial	SINGLE(0.3)
Water (%)	SINGLE(25.0)
Cellulose (%)	SINGLE(20.0)
Hemi-Cellulose (%)	SINGLE(20.0)
Decomposition (%)	SINGLE(50.0)
<i>Disposable nappies</i>	
Domestic	SINGLE(3.3)
Civic Amenity	SINGLE(2.9)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Other misc. combustibles</i>	
Domestic	SINGLE(0.3)
Civic Amenity	SINGLE(4.2)
Commercial	SINGLE(10.4)
Industrial	SINGLE(17.7)
Residues from MRF	UNIFORM(15.0, 20.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Garden waste</i>	
Domestic	SINGLE(16.0)
Civic Amenity	SINGLE(32.1)
Commercial	SINGLE(9.8)
Industrial	SINGLE(4.7)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(25.7)
Hemi-Cellulose (%)	SINGLE(13.0)
Decomposition (%)	SINGLE(62.0)
<i>Other putrescible</i>	
Domestic	SINGLE(25.6)
Civic Amenity	SINGLE(14.8)
Commercial	SINGLE(10.4)
Industrial	SINGLE(6.8)
Residues from MRF	SINGLE(20.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(55.4)
Hemi-Cellulose (%)	SINGLE(7.2)
Decomposition (%)	SINGLE(76.0)
<i>10mm fines</i>	
Domestic	SINGLE(4.1)
Civic Amenity	SINGLE(1.2)
Commercial	SINGLE(1.9)
Industrial	SINGLE(0.5)
Residues from MRF	SINGLE(10.0)
Water (%)	SINGLE(40.0)
Cellulose (%)	SINGLE(25.0)

Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Sewage sludge</i>	
Sewage Sludge	SINGLE(100.0)
Water (%)	SINGLE(70.0)
Cellulose (%)	SINGLE(14.0)
Hemi-Cellulose (%)	SINGLE(14.0)
Decomposition (%)	SINGLE(75.0)
<i>Composted organic material</i>	
Composted Organic Material	SINGLE(100.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	UNIFORM(7.47, 9.59)
Hemi-Cellulose (%)	UNIFORM(7.47, 9.59)
Decomposition (%)	SINGLE(57.0)
<i>Incinerator ash</i>	
Commercial	SINGLE(0.2)
Industrial	SINGLE(25.5)
Incinerator Ash	SINGLE(100.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	TRIANGULAR(0.5, 0.7, 1.5)
Hemi-Cellulose (%)	TRIANGULAR(0.5, 0.7, 1.5)
Decomposition (%)	SINGLE(57.0)
<i>Non degradable</i>	
Domestic	SINGLE(24.6)
Civic Amenity	SINGLE(28.0)
Commercial	SINGLE(34.1)
Industrial	SINGLE(30.7)
Inert	SINGLE(100.0)
Residues from MRF	UNIFORM(20.0, 40.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(0.0)
Cellulose (%)	SINGLE(0.0)
Hemi-Cellulose (%)	SINGLE(0.0)
Decomposition (%)	SINGLE(0.0)
<i>Calcium Sulphate (%)</i>	
<i>Iron (%)</i>	
<b>2012</b>	England 2011-2013 waste streams Lafarge1b
<b>2013</b>	England 2011-2013 waste streams Lafarge1b
<b>2014</b>	walley waste streams 2014-2020
<i>Newspapers</i>	
Domestic	SINGLE(1.5)
Civic Amenity	SINGLE(11.2)
Commercial	SINGLE(3.3)
Industrial	SINGLE(5.0)
Residues from MRF	SINGLE(1.5)
Recycling Schemes	SINGLE(10.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(48.5)
Hemi-Cellulose (%)	SINGLE(9.0)
Decomposition (%)	SINGLE(35.0)
<i>Magazines</i>	
Industrial	SINGLE(8.8)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(42.3)
Hemi-Cellulose (%)	SINGLE(9.4)
Decomposition (%)	SINGLE(46.0)
<i>Other paper</i>	
Domestic	SINGLE(9.9)
Civic Amenity	SINGLE(3.3)
Commercial	SINGLE(38.8)
Residues from MRF	SINGLE(9.9)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(87.4)
Hemi-Cellulose (%)	SINGLE(8.4)
Decomposition (%)	SINGLE(98.0)
<i>Liquid cartons</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Card packaging</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Other card</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Wood</i>	
Water (%)	SINGLE(0.0)
Cellulose (%)	SINGLE(0.0)
Hemi-Cellulose (%)	SINGLE(0.0)
Decomposition (%)	SINGLE(0.0)
<i>Textiles</i>	

Domestic	SINGLE(1.7)
Civic Amenity	SINGLE(2.3)
Commercial	SINGLE(1.1)
Industrial	SINGLE(0.3)
Residues from MRF	SINGLE(1.7)
Water (%)	SINGLE(25.0)
Cellulose (%)	SINGLE(20.0)
Hemi-Cellulose (%)	SINGLE(20.0)
Decomposition (%)	SINGLE(50.0)
<i>Disposable nappies</i>	
Domestic	SINGLE(1.7)
Civic Amenity	SINGLE(2.9)
Residues from MRF	SINGLE(1.7)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Other misc. combustibles</i>	
Domestic	UNIFORM(5.0, 20.0)
Civic Amenity	SINGLE(4.2)
Commercial	SINGLE(10.4)
Industrial	SINGLE(17.7)
Residues from MRF	SINGLE(18.1)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Garden waste</i>	
Domestic	UNIFORM(1.0, 5.0)
Civic Amenity	SINGLE(32.1)
Commercial	SINGLE(9.8)
Industrial	SINGLE(4.7)
Residues from MRF	SINGLE(8.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(25.7)
Hemi-Cellulose (%)	SINGLE(13.0)
Decomposition (%)	SINGLE(62.0)
<i>Other putrescible</i>	
Domestic	SINGLE(12.8)
Civic Amenity	SINGLE(14.8)
Commercial	SINGLE(10.4)
Industrial	SINGLE(6.8)
Residues from MRF	UNIFORM(6.0, 8.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(55.4)
Hemi-Cellulose (%)	SINGLE(7.2)
Decomposition (%)	SINGLE(76.0)
<i>10mm fines</i>	
Domestic	UNIFORM(2.0, 3.0)
Civic Amenity	SINGLE(1.2)
Commercial	SINGLE(1.9)
Industrial	SINGLE(0.5)
Residues from MRF	SINGLE(2.1)
Water (%)	SINGLE(40.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Sewage sludge</i>	
Sewage Sludge	SINGLE(100.0)
Water (%)	SINGLE(70.0)
Cellulose (%)	SINGLE(14.0)
Hemi-Cellulose (%)	SINGLE(14.0)
Decomposition (%)	SINGLE(75.0)
<i>Composted organic material</i>	
Composted Organic Material	SINGLE(100.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	UNIFORM(7.47, 9.59)
Hemi-Cellulose (%)	UNIFORM(7.47, 9.59)
Decomposition (%)	SINGLE(57.0)
<i>Incinerator ash</i>	
Domestic	UNIFORM(0.0, 1.0)
Commercial	SINGLE(0.2)
Industrial	SINGLE(25.5)
Incinerator Ash	SINGLE(100.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	TRIANGULAR(0.5, 0.7, 1.5)
Hemi-Cellulose (%)	TRIANGULAR(0.5, 0.7, 1.5)
Decomposition (%)	SINGLE(57.0)
<i>Non degradable</i>	
Domestic	UNIFORM(40.0, 70.0)
Civic Amenity	SINGLE(28.0)
Commercial	SINGLE(24.1)
Industrial	SINGLE(30.7)
Inert	SINGLE(100.0)

Residues from MRF	UNIFORM(40.0, 60.0)
Recycling Schemes	SINGLE(35.0)
Water (%)	SINGLE(0.0)
Cellulose (%)	SINGLE(0.0)
Hemi-Cellulose (%)	SINGLE(0.0)
Decomposition (%)	SINGLE(0.0)
<i>Calcium Sulphate (%)</i>	
<i>Iron (%)</i>	
<b>2015</b>	walley waste streams 2014-2020
<b>2016</b>	walley waste streams 2014-2020
<b>2017</b>	walley waste streams 2014-2020
<b>2018</b>	walley waste streams 2014-2020
<b>2019</b>	walley waste streams 2014-2020
<b>2020</b>	walley waste streams 2014-2020
<b>2021</b>	walley waste streams 2020+
<i>Newspapers</i>	
Domestic	SINGLE(1.1)
Civic Amenity	SINGLE(11.2)
Commercial	SINGLE(3.3)
Industrial	SINGLE(5.0)
Residues from MRF	UNIFORM(1.0, 2.0)
Recycling Schemes	SINGLE(10.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(48.5)
Hemi-Cellulose (%)	SINGLE(9.0)
Decomposition (%)	SINGLE(35.0)
<i>Magazines</i>	
Civic Amenity	SINGLE(3.3)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(42.3)
Hemi-Cellulose (%)	SINGLE(9.4)
Decomposition (%)	SINGLE(46.0)
<i>Other paper</i>	
Domestic	SINGLE(6.9)
Commercial	SINGLE(38.8)
Industrial	SINGLE(8.8)
Residues from MRF	UNIFORM(6.0, 10.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(87.4)
Hemi-Cellulose (%)	SINGLE(8.4)
Decomposition (%)	SINGLE(98.0)
<i>Liquid cartons</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Card packaging</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Other card</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Wood</i>	
Water (%)	SINGLE(0.0)
Cellulose (%)	SINGLE(0.0)
Hemi-Cellulose (%)	SINGLE(0.0)
Decomposition (%)	SINGLE(0.0)
<i>Textiles</i>	
Domestic	UNIFORM(1.0, 5.0)
Civic Amenity	SINGLE(2.3)
Commercial	SINGLE(1.1)
Industrial	SINGLE(0.3)
Residues from MRF	UNIFORM(1.0, 2.0)
Water (%)	SINGLE(25.0)
Cellulose (%)	SINGLE(20.0)
Hemi-Cellulose (%)	SINGLE(20.0)
Decomposition (%)	SINGLE(50.0)
<i>Disposable nappies</i>	
Domestic	SINGLE(1.2)
Civic Amenity	SINGLE(2.9)
Residues from MRF	UNIFORM(1.0, 2.0)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Other misc. combustibles</i>	
Domestic	SINGLE(0.1)
Civic Amenity	SINGLE(4.2)
Commercial	SINGLE(10.4)
Industrial	SINGLE(17.7)
Residues from MRF	UNIFORM(10.0, 20.0)
Water (%)	SINGLE(20.0)

Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Garden waste</i>	
Domestic	UNIFORM(1.0, 5.0)
Civic Amenity	SINGLE(32.1)
Commercial	SINGLE(9.8)
Industrial	SINGLE(4.7)
Residues from MRF	UNIFORM(5.0, 6.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(25.7)
Hemi-Cellulose (%)	SINGLE(13.0)
Decomposition (%)	SINGLE(62.0)
<i>Other putrescible</i>	
Domestic	SINGLE(10.0)
Civic Amenity	SINGLE(14.8)
Commercial	SINGLE(10.4)
Industrial	SINGLE(6.8)
Residues from MRF	UNIFORM(4.0, 5.0)
Recycling Schemes	SINGLE(25.0)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(55.4)
Hemi-Cellulose (%)	SINGLE(7.2)
Decomposition (%)	SINGLE(76.0)
<i>10mm fines</i>	
Domestic	UNIFORM(1.0, 2.0)
Civic Amenity	SINGLE(1.9)
Commercial	SINGLE(0.5)
Industrial	SINGLE(0.5)
Water (%)	SINGLE(40.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Sewage sludge</i>	
Sewage Sludge	SINGLE(100.0)
Water (%)	SINGLE(70.0)
Cellulose (%)	SINGLE(14.0)
Hemi-Cellulose (%)	SINGLE(14.0)
Decomposition (%)	SINGLE(75.0)
<i>Composted organic material</i>	
Composted Organic Material	SINGLE(100.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	UNIFORM(7.47, 9.59)
Hemi-Cellulose (%)	UNIFORM(7.47, 9.59)
Decomposition (%)	SINGLE(57.0)
<i>Incinerator ash</i>	
Commercial	SINGLE(0.2)
Industrial	SINGLE(25.5)
Incinerator Ash	SINGLE(100.0)
Water (%)	SINGLE(30.0)
Cellulose (%)	TRIANGULAR(0.5, 0.7, 1.5)
Hemi-Cellulose (%)	TRIANGULAR(0.5, 0.7, 1.5)
Decomposition (%)	SINGLE(57.0)
<i>Non degradable</i>	
Domestic	UNIFORM(65.0, 75.0)
Civic Amenity	SINGLE(28.0)
Commercial	UNIFORM(20.0, 35.0)
Industrial	SINGLE(30.7)
Inert	SINGLE(100.0)
Residues from MRF	UNIFORM(40.0, 60.0)
Recycling Schemes	SINGLE(35.0)
Water (%)	SINGLE(0.0)
Cellulose (%)	SINGLE(0.0)
Hemi-Cellulose (%)	SINGLE(0.0)
Decomposition (%)	SINGLE(0.0)
<i>Calcium Sulphate (%)</i>	
<i>Iron (%)</i>	
<b>2022</b>	walley waste streams 2020+
<b>2023</b>	walley waste streams 2020+
<b>2024</b>	England 2000-2010 waste streams
<i>Newspapers</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(48.5)
Hemi-Cellulose (%)	SINGLE(9.0)
Decomposition (%)	SINGLE(35.0)
<i>Magazines</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(42.3)
Hemi-Cellulose (%)	SINGLE(9.4)
Decomposition (%)	SINGLE(46.0)
<i>Other paper</i>	
Domestic	SINGLE(19.8)
Civic Amenity	SINGLE(3.3)
Commercial	SINGLE(28.8)
Industrial	SINGLE(8.8)

Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(87.4)
Hemi-Cellulose (%)	SINGLE(8.4)
Decomposition (%)	SINGLE(98.0)
<i>Liquid cartons</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Card packaging</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Other card</i>	
Water (%)	SINGLE(30.0)
Cellulose (%)	SINGLE(57.3)
Hemi-Cellulose (%)	SINGLE(9.9)
Decomposition (%)	SINGLE(64.0)
<i>Wood</i>	
Domestic	SINGLE(3.0)
Civic Amenity	SINGLE(11.2)
Commercial	SINGLE(3.3)
Industrial	SINGLE(5.0)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(21.0)
Hemi-Cellulose (%)	SINGLE(11.0)
Decomposition (%)	SINGLE(75.0)
<i>Textiles</i>	
Domestic	SINGLE(3.3)
Civic Amenity	SINGLE(2.3)
Commercial	SINGLE(1.1)
Industrial	SINGLE(0.3)
Water (%)	SINGLE(25.0)
Cellulose (%)	SINGLE(20.0)
Hemi-Cellulose (%)	SINGLE(20.0)
Decomposition (%)	SINGLE(50.0)
<i>Disposable nappies</i>	
Domestic	SINGLE(3.3)
Civic Amenity	SINGLE(2.9)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Other misc. combustibles</i>	
Domestic	SINGLE(0.3)
Civic Amenity	SINGLE(4.2)
Commercial	SINGLE(10.4)
Industrial	SINGLE(17.7)
Water (%)	SINGLE(20.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Garden waste</i>	
Domestic	SINGLE(16.0)
Civic Amenity	SINGLE(32.1)
Commercial	SINGLE(9.8)
Industrial	SINGLE(4.7)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(25.7)
Hemi-Cellulose (%)	SINGLE(13.0)
Decomposition (%)	SINGLE(62.0)
<i>Other putrescible</i>	
Domestic	SINGLE(25.6)
Civic Amenity	SINGLE(14.8)
Commercial	SINGLE(10.4)
Industrial	SINGLE(6.8)
Water (%)	SINGLE(65.0)
Cellulose (%)	SINGLE(55.4)
Hemi-Cellulose (%)	SINGLE(7.2)
Decomposition (%)	SINGLE(76.0)
<i>10mm fines</i>	
Domestic	SINGLE(4.1)
Civic Amenity	SINGLE(1.2)
Commercial	SINGLE(1.9)
Industrial	SINGLE(0.5)
Water (%)	SINGLE(40.0)
Cellulose (%)	SINGLE(25.0)
Hemi-Cellulose (%)	SINGLE(25.0)
Decomposition (%)	SINGLE(50.0)
<i>Sewage sludge</i>	
Sewage Sludge	SINGLE(100.0)
Water (%)	SINGLE(70.0)
Cellulose (%)	SINGLE(14.0)
Hemi-Cellulose (%)	SINGLE(14.0)
Decomposition (%)	SINGLE(75.0)



<i>Composted organic material</i>		
Composted Organic Material		SINGLE(100.0)
Water (%)		SINGLE(30.0)
Cellulose (%)		UNIFORM(7.47, 9.59)
Hemi-Cellulose (%)		UNIFORM(7.47, 9.59)
Decomposition (%)		SINGLE(57.0)
<i>Incinerator ash</i>		
Commercial		SINGLE(0.2)
Industrial		SINGLE(25.5)
Incinerator Ash		SINGLE(100.0)
Water (%)		SINGLE(30.0)
Cellulose (%)		TRIANGULAR(0.5, 0.7, 1.5)
Hemi-Cellulose (%)		TRIANGULAR(0.5, 0.7, 1.5)
Decomposition (%)		SINGLE(57.0)
<i>Non degradable</i>		
Domestic		SINGLE(24.6)
Civic Amenity		SINGLE(28.0)
Commercial		SINGLE(34.1)
Industrial		SINGLE(30.7)
Inert		SINGLE(100.0)
Water (%)		SINGLE(0.0)
Cellulose (%)		SINGLE(0.0)
Hemi-Cellulose (%)		SINGLE(0.0)
Decomposition (%)		SINGLE(0.0)
<i>Calcium Sulphate (%)</i>		
Domestic		TRIANGULAR(0.2, 0.35, 2.3)
Civic Amenity		TRIANGULAR(0.2, 0.35, 2.3)
Composted Organic Material		TRIANGULAR(0.2, 0.35, 2.3)
Incinerator Ash		TRIANGULAR(0.2, 0.35, 2.3)
Residues from MRF		TRIANGULAR(0.2, 0.35, 2.3)
Recycling Schemes		TRIANGULAR(0.2, 0.35, 2.3)
Chemical Sludge		TRIANGULAR(0.2, 0.35, 2.3)
Industrial Liquid Waste		TRIANGULAR(0.2, 0.35, 2.3)
<i>Iron (%)</i>		
Domestic		TRIANGULAR(0.3, 4.8, 8.2)
Civic Amenity		TRIANGULAR(0.3, 4.8, 8.2)
Commercial		TRIANGULAR(0.3, 4.8, 8.2)
Industrial		TRIANGULAR(0.3, 4.8, 8.2)
Inert		TRIANGULAR(0.3, 4.8, 8.2)
Liquid Inert		TRIANGULAR(0.3, 4.8, 8.2)
Sewage Sludge		TRIANGULAR(0.3, 4.8, 8.2)
Composted Organic Material		TRIANGULAR(0.3, 4.8, 8.2)
Incinerator Ash		TRIANGULAR(0.3, 4.8, 8.2)
Residues from MRF		TRIANGULAR(0.3, 4.8, 8.2)
Recycling Schemes		TRIANGULAR(0.3, 4.8, 8.2)
Chemical Sludge		TRIANGULAR(0.3, 4.8, 8.2)
Industrial Liquid Waste		TRIANGULAR(0.3, 4.8, 8.2)
User Defined 1		TRIANGULAR(0.3, 4.8, 8.2)
User Defined 2		TRIANGULAR(0.3, 4.8, 8.2)
User Defined 3		TRIANGULAR(0.3, 4.8, 8.2)
Justification:	[Changed]	Red Industries info

## Trace Gases

No Combustion Products Selected

## Cell 2

Infiltration		NORMAL(620.0, 100.0)
Justification:	[Changed]	Not Justified

## Waste Input

Year		Amount Deposited (t)
2007		SINGLE(7.30E+04)
2008		SINGLE(6.60E+04)
2009		SINGLE(6.43E+04)
2010		SINGLE(6.37E+04)
2011		SINGLE(6.47E+04)
2012		SINGLE(4.90E+04)
2013		SINGLE(6.23E+04)
2014		SINGLE(5.17E+04)
2015		SINGLE(5.33E+04)
2016		SINGLE(5.42E+04)
2017		SINGLE(7.60E+04)
2018		SINGLE(8.33E+04)
2019		SINGLE(1.22E+05)
2020		SINGLE(2.00E+05)
2021		SINGLE(1.00E+05)
2022		SINGLE(1.33E+05)
2023		SINGLE(2.00E+05)
Justification:	[Changed]	Red Industries info and based on site permit

## Waste Breakdown

<b>2007</b>		
Domestic		SINGLE(15.0)
Industrial		SINGLE(10.0)
Inert		SINGLE(18.0)
Sewage Sludge		SINGLE(1.5)
Composted Organic Material		SINGLE(0.5)

Residues from MRF	SINGLE(55.0)
<b>2008</b>	
Domestic	SINGLE(15.0)
Industrial	SINGLE(10.0)
Inert	SINGLE(18.0)
Sewage Sludge	SINGLE(1.5)
Composted Organic Material	SINGLE(0.5)
Residues from MRF	SINGLE(55.0)
<b>2009</b>	
Domestic	SINGLE(17.6)
Commercial	SINGLE(1.8)
Industrial	SINGLE(12.6)
Inert	SINGLE(13.1)
Sewage Sludge	SINGLE(2.0)
Composted Organic Material	SINGLE(1.5)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	SINGLE(50.8)
Recycling Schemes	SINGLE(0.5)
<b>2010</b>	
Domestic	TRIANGULAR(11.0, 14.0, 17.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2011</b>	
Domestic	TRIANGULAR(11.0, 14.0, 17.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2012</b>	
Domestic	TRIANGULAR(11.0, 14.0, 17.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2013</b>	
Domestic	UNIFORM(10.0, 17.5)
Commercial	UNIFORM(0.0, 1.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(15.0, 29.0, 35.0)
Sewage Sludge	UNIFORM(1.5, 3.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	UNIFORM(32.0, 51.0)
Recycling Schemes	UNIFORM(0.5, 5.5)
<b>2014</b>	
Domestic	TRIANGULAR(5.0, 10.0, 15.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(35.0, 36.8, 40.0)
Sewage Sludge	TRIANGULAR(3.0, 3.7, 5.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.3)
Residues from MRF	TRIANGULAR(40.0, 41.0, 45.0)
Recycling Schemes	UNIFORM(0.0, 1.0)
<b>2015</b>	
Domestic	TRIANGULAR(5.0, 7.0, 10.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(35.0, 36.8, 40.0)
Sewage Sludge	TRIANGULAR(3.0, 3.7, 5.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.3)
Residues from MRF	TRIANGULAR(40.0, 41.0, 45.0)
Recycling Schemes	UNIFORM(0.0, 1.0)
<b>2016</b>	
Domestic	TRIANGULAR(1.0, 5.0, 7.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)

Residues from MRF Recycling Schemes		TRIANGULAR(50.0, 55.0, 57.0) UNIFORM(0.5, 0.9)
<b>2017</b>		
Domestic		TRIANGULAR(0.5, 2.0, 3.0)
Commercial		TRIANGULAR(5.0, 16.2, 20.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2018</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		TRIANGULAR(5.0, 16.2, 20.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2019</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		TRIANGULAR(5.0, 16.2, 20.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2020</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2021</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2022</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2023</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
Justification:	[Default]	Red Industries info
<b>Trace Gases</b>		
<i>Source Gases</i>		Concentration [mg/m3]
1,1,1,2-Tetrafluorochloroethane		LOGTRIANGULAR(0.002, 0.2, 2.0)
1,1,1-Trichlorotrifluoroethane		LOGTRIANGULAR(0.005, 0.4, 8.0)
1,1,2-Trichloroethane		LOGTRIANGULAR(0.004, 1.0, 10.0)
1,1-Dichloroethane		NORMAL(0.08, 0.02)
1,1-Dichloroethene		LOGTRIANGULAR(0.03, 2.8, 19.0)
1,1-Dichlorotetrafluoroethane		LOGTRIANGULAR(0.05, 0.25, 6.4)
1,2-Dichloropropane		SINGLE(0.0)
1,2-Dichlorotetrafluoroethane		LOGTRIANGULAR(0.01, 9.8, 300.0)
1-butanethiol		SINGLE(0.15)
1-Chloro-1,1-difluoroethane		LOGTRIANGULAR(0.04, 0.57, 31.0)
2-butoxy ethanol		SINGLE(0.19)

2-Chloro-1,1,1-trifluoroethane	LOGUNIFORM(0.05, 1.5)
2-Propanol	LOGTRIANGULAR(0.005, 2.0, 34.0)
Acetaldehyde (ethanal)	SINGLE(1.3)
Acetone	LOGTRIANGULAR(0.005, 0.1, 50.0)
Acrylonitrile	LOGTRIANGULAR(0.02, 0.4, 38.0)
Arsenic	SINGLE(0.04)
Benzene	SINGLE(1.39)
Bromodichloromethane	SINGLE(0.0)
Butadiene (modelled as 1,3-Butadiene)	SINGLE(0.11)
Butane	LOGTRIANGULAR(0.19, 1.0, 709.0)
Butene isomers	LOGTRIANGULAR(1.00E-03, 2.00E-01, 1.80E+00)
Butyric acid	SINGLE(0.18)
Carbon disulphide	SINGLE(0.64)
Carbon monoxide	LOGTRIANGULAR(0.11, 1.1, 5000.0)
Carbon tetrachloride (tetrachloromethane)	SINGLE(0.005)
Carbonyl sulphide	LOGTRIANGULAR(0.006, 0.2, 4.4)
Chlorobenzene	LOGUNIFORM(0.002, 3000.0)
Chlorodifluoromethane	LOGTRIANGULAR(0.005, 0.1, 9900.0)
Chloroethane	SINGLE(0.9)
Chlorofluorocarbons (CFCs) (Total)	LOGTRIANGULAR(0.06, 102.3, 1230.0)
Chlorofluoromethane	LOGTRIANGULAR(0.008, 0.2, 110.0)
Chloroform (trichloromethane)	LOGTRIANGULAR(1.00E-03, 2.00E-01, 7.00E+01)
Chlorotrifluoromethane	LOGTRIANGULAR(0.1, 0.2, 49.0)
Dichlorodifluoromethane	LOGTRIANGULAR(0.01, 9.0, 790.0)
Dichlorofluoromethane	LOGTRIANGULAR(1.00E-03, 1.00E-02, 6.02E+02)
Dichloromethane (methylene chloride)	LOGTRIANGULAR(1.00E-03, 2.00E-02, 1.52E+03)
Diethyl disulphide	LOGTRIANGULAR(1.00E-03, 2.00E-02, 2.60E+00)
Dimethyl disulphide	SINGLE(0.27)
Dimethyl sulphide	SINGLE(0.39)
Ethane	LOGTRIANGULAR(0.005, 6.25, 200.0)
Ethanthiol (ethyl mercaptan)	LOGUNIFORM(1.00E-30, 8.00E-02)
Ethanol	LOGTRIANGULAR(0.005, 0.2, 810.0)
Ethyl butyrate	SINGLE(0.73)
Ethyl toluene (all isomers)	LOGTRIANGULAR(1.00E-03, 1.00E-02, 8.30E+00)
Ethylbenzene	LOGTRIANGULAR(1.00E-03, 1.00E-03, 8.75E+02)
Ethylene	UNIFORM(0.2, 5.8)
Ethylene dibromide	SINGLE(0.0)
Ethylene dichloride	LOGTRIANGULAR(0.006, 0.01, 1820.0)
Fluorotrichloromethane	LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.00E+03)
Formaldehyde (methanal)	SINGLE(0.19)
Freon 113	LOGTRIANGULAR(0.013, 4.8, 125.0)
Furan	SINGLE(0.58)
Halons	SINGLE(0.0)
Hexachlorocyclohexane (all isomers)	SINGLE(0.0)
Hexane	LOGTRIANGULAR(1.00E-03, 9.60E+00, 4.40E+01)
Hydrochlorofluorocarbons (HCFCs) (Total)	LOGTRIANGULAR(0.02, 128.8, 916.2)
Hydrofluorocarbons (HFCs) (Total)	SINGLE(0.0)
Hydrogen sulphide	LOGTRIANGULAR(2.4, 580.0, 1100.0)
Limonene	LOGTRIANGULAR(1.00E-03, 1.00E-01, 2.40E+02)
Mercury	LOGUNIFORM(1.70E-04, 1.33E-03)
Methanethiol (methyl mercaptan)	LOGUNIFORM(1.00E-30, 3.00E-01)
Methyl chloride (chloromethane)	LOGTRIANGULAR(0.006, 0.2, 10.0)
Methyl chloroform (1,1,1-Trichloroethane)	LOGTRIANGULAR(1.00E-03, 1.80E+02, 1.60E+03)
Methyl ethyl ketone (2-butanone)	LOGTRIANGULAR(0.005, 0.005, 73.0)
Methyl isobutyl ketone	LOGTRIANGULAR(0.005, 0.2, 9.9)
Nitric acid	SINGLE(0.0)
Odour Units (Predicted)	TRIANGULAR(5.00E+04, 1.25E+05, 2.50E+05)
PAH (reported as Naphthalene)	LOGTRIANGULAR(1.00E-03, 2.00E-01, 1.70E+01)
para-Dichlorobenzene (modelled as 1,4-Dichlorobenzene)	LOGTRIANGULAR(0.006, 0.05, 2.7)
Pentane	LOGTRIANGULAR(0.02, 0.3, 105.0)
Pentene (all isomers)	SINGLE(0.6)
Perfluorocarbons (PFCs) (Total)	SINGLE(0.0)
Phenol	SINGLE(0.0)
PM10s	SINGLE(0.0)
Propane	LOGTRIANGULAR(1.00E-03, 1.90E+00, 1.29E+01)
Propanethiol	LOGUNIFORM(1.00E-30, 9.00E-02)
Sulphide, total simulations with H2S	LOGTRIANGULAR(1.00E-03, 2.40E+00, 5.58E+03)
Sulphide, total simulations without H2S	LOGTRIANGULAR(5.00E-04, 8.00E-03, 3.50E+00)
t-1,2-Dichloroethene	LOGTRIANGULAR(0.02, 0.24, 2.6)
Tetrachloroethane (modelled as 1,1,2,2-Tetrachloroethane)	LOGUNIFORM(1.00E-03, 5.00E+01)
Tetrachloroethylene (Tetrachloroethene)	LOGTRIANGULAR(1.00E-03, 1.00E-02, 7.70E+03)
Toluene	LOGTRIANGULAR(0.01, 0.1, 1250.0)
Trichlorobenzene (all isomers)	LOGTRIANGULAR(0.01, 0.01, 0.13)
Trichloroethylene (trichloroethene)	SINGLE(1.62)
Trichlorofluoromethane	LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.00E+03)
Trichlorotrifluoroethane	LOGTRIANGULAR(1.00E-03, 4.80E+00, 2.40E+01)
Trimethylbenzene (all isomers)	LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.87E+02)
Vinyl chloride (chloroethene, chloroethylene)	SINGLE(0.53)
Xylene (all isomers)	LOGTRIANGULAR(1.00E-03, 1.00E-03, 6.18E+04)
Justification: [Default]	Default Value
VOC Halflife	NORMAL(4.11, 1.56)
Justification: [Default]	Default Value

## Waste Moisture Content

Degradation rate - Filling Phase		Average
Justification:	[Changed]	based on wet
Degradation rate - after change		User Defined 2
Justification:	[Changed]	based on average to wet
Waste Density		TRIANGULAR(0.98, 1.1, 1.26)
Justification:	[Changed]	Not Justified
Leachate Head		SINGLE(2.0)
Justification:	[Changed]	Not Justified
Hydraulic Conductivity		LOGUNIFORM(1.00E-09, 1.00E-05)
Justification:	[Default]	Default Value

### Engineered Controls

<b>Cap</b>		Single Liner
Cap Thickness		SINGLE(1.00E-03)
Cap Hydraulic Conductivity		SINGLE(1.00E-09)
Justifications		
Cap	[Changed]	design specification
Cap Thickness	[Changed]	design specification
Cap Hydraulic Conductivity	[Changed]	minimum requirement
<b>liner</b>		Single Clay
Liner Thickness		SINGLE(3.0)
Liner Hydraulic Conductivity		LOGUNIFORM(8.90E-11, 1.00E-09)
Justifications		
Liner	[Changed]	CQA Plan
Liner Thickness	[Changed]	CQA Plan
Liner Hydraulic Conductivity	[Changed]	minimum requirement
Justification:	[Default]	Default Value
Methane Oxidation %		SINGLE(10.0)
Justification:	[Default]	Default Value
Land Raise Depth		#UNDEFINED?

### Geosphere

Ground Surface (mAOD)		0
Water Table (mAOD)		0
Geosphere Moisture Content		UNIFORM(10.0, 30.0)
Geosphere Porosity		UNIFORM(15.0, 35.0)

### Cell 1 defined

Infiltration		NORMAL(620.0, 100.0)
Justification:	[Changed]	Not Justified

### Waste Input

Year		AmountDeposited (t)
2007		SINGLE(7.30E+04)
2008		SINGLE(6.60E+04)
2009		SINGLE(6.43E+04)
2010		SINGLE(6.37E+04)
2011		SINGLE(0.0)
2012		SINGLE(0.0)
2013		SINGLE(0.0)
2014		SINGLE(0.0)
2015		SINGLE(0.0)
2016		SINGLE(0.0)
2017		SINGLE(0.0)
2018		SINGLE(0.0)
2019		SINGLE(0.0)
2020		SINGLE(2.00E+05)
2021		SINGLE(1.00E+05)
2022		SINGLE(0.0)
2023		SINGLE(0.0)
Justification:	[Changed]	Temp Cap in place

### Waste Breakdown

<b>2007</b>		
Domestic		SINGLE(15.0)
Industrial		SINGLE(10.0)
Inert		SINGLE(18.0)
Sewage Sludge		SINGLE(1.5)
Composted Organic Material		SINGLE(0.5)
Residues from MRF		SINGLE(55.0)
<b>2008</b>		
Domestic		SINGLE(15.0)
Industrial		SINGLE(10.0)
Inert		SINGLE(18.0)
Sewage Sludge		SINGLE(1.5)
Composted Organic Material		SINGLE(0.5)
Residues from MRF		SINGLE(55.0)
<b>2009</b>		
Domestic		SINGLE(17.6)
Commercial		SINGLE(1.8)
Industrial		SINGLE(12.6)
Inert		SINGLE(13.1)
Sewage Sludge		SINGLE(2.0)
Composted Organic Material		SINGLE(1.5)
Incinerator Ash		SINGLE(0.1)
Residues from MRF		SINGLE(50.8)
Recycling Schemes		SINGLE(0.5)
<b>2010</b>		
Domestic		TRIANGULAR(11.0, 14.0, 17.0)

Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2011</b>	
Domestic	TRIANGULAR(11.0, 14.0, 17.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2012</b>	
Domestic	TRIANGULAR(11.0, 14.0, 17.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2013</b>	
Domestic	UNIFORM(10.0, 17.5)
Commercial	UNIFORM(0.0, 1.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(15.0, 29.0, 35.0)
Sewage Sludge	UNIFORM(1.5, 3.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	UNIFORM(32.0, 51.0)
Recycling Schemes	UNIFORM(0.5, 5.5)
<b>2014</b>	
Domestic	TRIANGULAR(5.0, 10.0, 15.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(35.0, 36.8, 40.0)
Sewage Sludge	TRIANGULAR(3.0, 3.7, 5.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.3)
Residues from MRF	TRIANGULAR(40.0, 41.0, 45.0)
Recycling Schemes	UNIFORM(0.0, 1.0)
<b>2015</b>	
Domestic	TRIANGULAR(5.0, 7.0, 10.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(35.0, 36.8, 40.0)
Sewage Sludge	TRIANGULAR(3.0, 3.7, 5.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.3)
Residues from MRF	TRIANGULAR(40.0, 41.0, 45.0)
Recycling Schemes	UNIFORM(0.0, 1.0)
<b>2016</b>	
Domestic	TRIANGULAR(1.0, 5.0, 7.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2017</b>	
Domestic	TRIANGULAR(0.5, 2.0, 3.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2018</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)

Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2019</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		TRIANGULAR(5.0, 16.2, 20.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2020</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2021</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2022</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2023</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
Justification:	[Default]	Default Value
<b>Trace Gases</b>		
<i>Source Gases</i>		Concentration [mg/m <sup>3</sup> ]
1,1,1,2-Tetrafluorochloroethane		LOGTRIANGULAR(0.002, 0.2, 2.0)
1,1,1-Trichlorotrifluoroethane		LOGTRIANGULAR(0.005, 0.4, 8.0)
1,1,2-Trichloroethane		LOGTRIANGULAR(0.004, 1.0, 10.0)
1,1-Dichloroethane		NORMAL(0.08, 0.02)
1,1-Dichloroethene		LOGTRIANGULAR(0.03, 2.8, 19.0)
1,1-Dichlorotetrafluoroethane		LOGTRIANGULAR(0.05, 0.25, 6.4)
1,2-Dichloropropane		SINGLE(0.0)
1,2-Dichlorotetrafluoroethane		LOGTRIANGULAR(0.01, 9.8, 300.0)
1-butanethiol		SINGLE(0.15)
1-Chloro-1,1-difluoroethane		LOGTRIANGULAR(0.04, 0.57, 31.0)
2-butoxy ethanol		SINGLE(0.19)
2-Chloro-1,1,1-trifluoroethane		LOGUNIFORM(0.05, 1.5)
2-Propanol		LOGTRIANGULAR(0.005, 2.0, 34.0)
Acetaldehyde (ethanal)		SINGLE(1.3)
Acetone		LOGTRIANGULAR(0.005, 0.1, 50.0)
Acrylonitrile		LOGTRIANGULAR(0.02, 0.4, 38.0)
Arsenic		SINGLE(0.04)
Benzene		SINGLE(1.39)
Bromodichloromethane		SINGLE(0.0)
Butadiene (modelled as 1,3-Butadiene)		SINGLE(0.11)
Butane		LOGTRIANGULAR(0.19, 1.0, 709.0)
Butene isomers		LOGTRIANGULAR(1.00E-03, 2.00E-01, 1.80E+00)
Butyric acid		SINGLE(0.18)
Carbon disulphide		SINGLE(0.64)
Carbon monoxide		LOGTRIANGULAR(0.11, 1.1, 5000.0)
Carbon tetrachloride (tetrachloromethane)		SINGLE(0.005)
Carbonyl sulphide		LOGTRIANGULAR(0.006, 0.2, 4.4)
Chlorobenzene		LOGUNIFORM(0.002, 3000.0)
Chlorodifluoromethane		LOGTRIANGULAR(0.005, 0.1, 9900.0)
Chloroethane		SINGLE(0.9)
Chlorofluorocarbons (CFCs) (Total)		LOGTRIANGULAR(0.06, 102.3, 1230.0)

Chlorofluoromethane		LOGTRIANGULAR(0.008, 0.2, 110.0)
Chloroform (trichloromethane)		LOGTRIANGULAR(1.00E-03, 2.00E-01, 7.00E+01)
Chlorotrifluoromethane		LOGTRIANGULAR(0.1, 0.2, 49.0)
Dichlorodifluoromethane		LOGTRIANGULAR(0.01, 9.0, 790.0)
Dichlorofluoromethane		LOGTRIANGULAR(1.00E-03, 1.00E-02, 6.02E+02)
Dichloromethane (methylene chloride)		LOGTRIANGULAR(1.00E-03, 2.00E-02, 1.52E+03)
Diethyl disulphide		LOGTRIANGULAR(1.00E-03, 2.00E-02, 2.60E+00)
Dimethyl disulphide		SINGLE(0.27)
Dimethyl sulphide		SINGLE(0.39)
Ethane		LOGTRIANGULAR(0.005, 6.25, 200.0)
Ethanethiol (ethyl mercaptan)		LOGUNIFORM(1.00E-30, 8.00E-02)
Ethanol		LOGTRIANGULAR(0.005, 0.2, 810.0)
Ethyl butyrate		SINGLE(0.73)
Ethyl toluene (all isomers)		LOGTRIANGULAR(1.00E-03, 1.00E-02, 8.30E+00)
Ethylbenzene		LOGTRIANGULAR(1.00E-03, 1.00E-03, 8.75E+02)
Ethylene		UNIFORM(0.2, 5.8)
Ethylene dibromide		SINGLE(0.0)
Ethylene dichloride		LOGTRIANGULAR(0.006, 0.01, 1820.0)
Fluorotrchloromethane		LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.00E+03)
Formaldehyde (methanal)		SINGLE(0.19)
Freon 113		LOGTRIANGULAR(0.013, 4.8, 125.0)
Furan		SINGLE(0.58)
Halons		SINGLE(0.0)
Hexachlorocyclohexane (all isomers)		SINGLE(0.0)
Hexane		LOGTRIANGULAR(1.00E-03, 9.60E+00, 4.40E+01)
Hydrochlorofluorocarbons (HCFCs) (Total)		LOGTRIANGULAR(0.02, 128.8, 916.2)
Hydrofluorocarbons (HFCs) (Total)		SINGLE(0.0)
Hydrogen sulphide		LOGTRIANGULAR(2.4, 580.0, 1100.0)
Limonene		LOGTRIANGULAR(1.00E-03, 1.00E-01, 2.40E+02)
Mercury		LOGUNIFORM(1.70E-04, 1.33E-03)
Methanethiol (methyl mercaptan)		LOGUNIFORM(1.00E-30, 3.00E-01)
Methyl chloride (chloromethane)		LOGTRIANGULAR(0.006, 0.2, 10.0)
Methyl chloroform (1,1,1-Trichloroethane)		LOGTRIANGULAR(1.00E-03, 1.80E+02, 1.60E+03)
Methyl ethyl ketone (2-butanone)		LOGTRIANGULAR(0.005, 0.005, 73.0)
Methyl isobutyl ketone		LOGTRIANGULAR(0.005, 0.2, 9.9)
Nitric acid		SINGLE(0.0)
Odour Units (Predicted)		TRIANGULAR(5.00E+04, 1.25E+05, 2.50E+05)
PAH (reported as Naphthalene)		LOGTRIANGULAR(1.00E-03, 2.00E-01, 1.70E+01)
para-Dichlorobenzene (modelled as 1,4-Dichlorobenzene)		LOGTRIANGULAR(0.006, 0.05, 2.7)
Pentane		LOGTRIANGULAR(0.02, 0.3, 105.0)
Pentene (all isomers)		SINGLE(0.6)
Perfluorocarbons (PFCs) (Total)		SINGLE(0.0)
Phenol		SINGLE(0.0)
PM10s		SINGLE(0.0)
Propane		LOGTRIANGULAR(1.00E-03, 1.90E+00, 1.29E+01)
Propanethiol		LOGUNIFORM(1.00E-30, 9.00E-02)
Sulphide, total simulations with H2S		LOGTRIANGULAR(1.00E-03, 2.40E+00, 5.58E+03)
Sulphide, total simulations without H2S		LOGTRIANGULAR(5.00E-04, 8.00E-03, 3.50E+00)
t-1,2-Dichloroethene		LOGTRIANGULAR(0.02, 0.24, 2.6)
Tetrachloroethane (modelled as 1,1,2,2-Tetrachloroethane)		LOGUNIFORM(1.00E-03, 5.00E+01)
Tetrachloroethylene (Tetrachloroethene)		LOGTRIANGULAR(1.00E-03, 1.00E-02, 7.70E+03)
Toluene		LOGTRIANGULAR(0.01, 0.1, 1250.0)
Trichlorobenzene (all isomers)		LOGTRIANGULAR(0.01, 0.01, 0.13)
Trichloroethylene (trichloroethene)		SINGLE(1.62)
Trichlorofluoromethane		LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.00E+03)
Trichlorotrifluoroethane		LOGTRIANGULAR(1.00E-03, 4.80E+00, 2.40E+01)
Trimethylbenzene (all isomers)		LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.87E+02)
Vinyl chloride (chloroethene, chloroethylene)		SINGLE(0.53)
Xylene (all isomers)		LOGTRIANGULAR(1.00E-03, 1.00E-03, 6.18E+04)
Justification:	[Default]	Default Value
VOC Halflife		NORMAL(4.11, 1.56)
Justification:	[Default]	Default Value
<b>Waste Moisture Content</b>		
Degradation rate - Filling Phase		Average
Justification:	[Changed]	based on wet
Degradation rate - after change		User Defined 2
Justification:	[Changed]	based on average to wet
Waste Density		TRIANGULAR(0.98, 1.1, 1.26)
Justification:	[Changed]	Not Justified
Leachate Head		SINGLE(2.0)
Justification:	[Changed]	Not Justified
Hydraulic Conductivity		LOGUNIFORM(1.00E-09, 1.00E-05)
Justification:	[Default]	Default Value
<b>Engineered Controls</b>		
Cap		Single Liner
Cap Thickness		SINGLE(1.00E-03)
Cap Hydraulic Conductivity		SINGLE(1.00E-09)
Justifications		
Cap	[Changed]	minimum requirement
Cap Thickness	[Changed]	design specification
Cap Hydraulic Conductivity	[Changed]	minimum requirement
liner		Single Clay
Liner Thickness		SINGLE(3.0)



Liner Hydraulic Conductivity		LOGUNIFORM(8.90E-11, 1.00E-09)
Justifications		
Liner	[Changed]	CQA Plan
Liner Thickness	[Changed]	CQA Plan
Liner Hydraulic Conductivity	[Changed]	minimum requirement
Justification:	[Default]	Default Value
Methane Oxidation %		SINGLE(10.0)
Justification:	[Default]	Default Value
Land Raise Depth		#UNDEFINED?
<b>Geosphere</b>		
Ground Surface (mAOD)		0
Water Table (mAOD)		0
Geosphere Moisture Content		UNIFORM(10.0, 30.0)
Geosphere Porosity		UNIFORM(15.0, 35.0)

### Cell 3

Infiltration		NORMAL(620.0, 100.0)
Justification:	[Changed]	Not Justified

### Waste Input

Year		Amount Deposited (t)
2007		SINGLE(0.0)
2008		SINGLE(0.0)
2009		SINGLE(6.43E+04)
2010		SINGLE(6.37E+04)
2011		SINGLE(6.47E+04)
2012		SINGLE(4.90E+04)
2013		SINGLE(6.23E+04)
2014		SINGLE(5.17E+04)
2015		SINGLE(5.33E+04)
2016		SINGLE(5.42E+04)
2017		SINGLE(7.60E+04)
2018		SINGLE(8.33E+04)
2019		SINGLE(1.22E+05)
2020		SINGLE(0.0)
2021		SINGLE(1.00E+05)
2022		SINGLE(1.33E+05)
2023		SINGLE(0.0)
Justification:	[Changed]	Not Justified

### Waste Breakdown

<b>2007</b>		
Domestic		SINGLE(15.0)
Industrial		SINGLE(10.0)
Inert		SINGLE(18.0)
Sewage Sludge		SINGLE(1.5)
Composted Organic Material		SINGLE(0.5)
Residues from MRF		SINGLE(55.0)

<b>2008</b>		
Domestic		SINGLE(15.0)
Industrial		SINGLE(10.0)
Inert		SINGLE(18.0)
Sewage Sludge		SINGLE(1.5)
Composted Organic Material		SINGLE(0.5)
Residues from MRF		SINGLE(55.0)

<b>2009</b>		
Domestic		SINGLE(17.6)
Commercial		SINGLE(1.8)
Industrial		SINGLE(12.6)
Inert		SINGLE(13.1)
Sewage Sludge		SINGLE(2.0)
Composted Organic Material		SINGLE(1.5)
Incinerator Ash		SINGLE(0.1)
Residues from MRF		SINGLE(50.8)
Recycling Schemes		SINGLE(0.5)

<b>2010</b>		
Domestic		TRIANGULAR(11.0, 14.0, 17.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(8.0, 10.0, 12.0)
Inert		TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge		UNIFORM(1.5, 2.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF		TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes		UNIFORM(0.5, 0.9)

<b>2011</b>		
Domestic		TRIANGULAR(11.0, 14.0, 17.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(8.0, 10.0, 12.0)
Inert		TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge		UNIFORM(1.5, 2.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF		TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes		UNIFORM(0.5, 0.9)

<b>2012</b>		
Domestic		TRIANGULAR(11.0, 14.0, 17.0)

Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2013</b>	
Domestic	UNIFORM(10.0, 17.5)
Commercial	UNIFORM(0.0, 1.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(15.0, 29.0, 35.0)
Sewage Sludge	UNIFORM(1.5, 3.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	UNIFORM(32.0, 51.0)
Recycling Schemes	UNIFORM(0.5, 5.5)
<b>2014</b>	
Domestic	TRIANGULAR(5.0, 10.0, 15.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(35.0, 36.8, 40.0)
Sewage Sludge	TRIANGULAR(3.0, 3.7, 5.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.3)
Residues from MRF	TRIANGULAR(40.0, 41.0, 45.0)
Recycling Schemes	UNIFORM(0.0, 1.0)
<b>2015</b>	
Domestic	TRIANGULAR(5.0, 7.0, 10.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(35.0, 36.8, 40.0)
Sewage Sludge	TRIANGULAR(3.0, 3.7, 5.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.3)
Residues from MRF	TRIANGULAR(40.0, 41.0, 45.0)
Recycling Schemes	UNIFORM(0.0, 1.0)
<b>2016</b>	
Domestic	TRIANGULAR(1.0, 5.0, 7.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2017</b>	
Domestic	TRIANGULAR(0.5, 2.0, 3.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2018</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2019</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2020</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)

Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2021</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2022</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2023</b>		
Domestic		TRIANGULAR(0.5, 1.0, 3.0)
Commercial		UNIFORM(0.0, 2.0)
Industrial		TRIANGULAR(7.0, 9.6, 10.0)
Inert		TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge		UNIFORM(0.0, 1.0)
Composted Organic Material		UNIFORM(1.0, 2.0)
Incinerator Ash		SINGLE(0.1)
Residues from MRF Recycling Schemes		TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
Justification:	[Default]	Default Value
<b>Trace Gases</b>		
<i>Source Gases</i>		Concentration [mg/m <sup>3</sup> ]
1,1,1,2-Tetrafluorochloroethane		LOGTRIANGULAR(0.002, 0.2, 2.0)
1,1,1-Trichlorotrifluoroethane		LOGTRIANGULAR(0.005, 0.4, 8.0)
1,1,2-Trichloroethane		LOGTRIANGULAR(0.004, 1.0, 10.0)
1,1-Dichloroethane		NORMAL(0.08, 0.02)
1,1-Dichloroethene		LOGTRIANGULAR(0.03, 2.8, 19.0)
1,1-Dichlorotetrafluoroethane		LOGTRIANGULAR(0.05, 0.25, 6.4)
1,2-Dichloropropane		SINGLE(0.0)
1,2-Dichlorotetrafluoroethane		LOGTRIANGULAR(0.01, 9.8, 300.0)
1-butanethiol		SINGLE(0.15)
1-Chloro-1,1-difluoroethane		LOGTRIANGULAR(0.04, 0.57, 31.0)
2-butoxy ethanol		SINGLE(0.19)
2-Chloro-1,1,1-trifluoroethane		LOGUNIFORM(0.05, 1.5)
2-Propanol		LOGTRIANGULAR(0.005, 2.0, 34.0)
Acetaldehyde (ethanal)		SINGLE(1.3)
Acetone		LOGTRIANGULAR(0.005, 0.1, 50.0)
Acrylonitrile		LOGTRIANGULAR(0.02, 0.4, 38.0)
Arsenic		SINGLE(0.04)
Benzene		SINGLE(1.39)
Bromodichloromethane		SINGLE(0.0)
Butadiene (modelled as 1,3-Butadiene)		SINGLE(0.11)
Butane		LOGTRIANGULAR(0.19, 1.0, 709.0)
Butene isomers		LOGTRIANGULAR(1.00E-03, 2.00E-01, 1.80E+00)
Butyric acid		SINGLE(0.18)
Carbon disulphide		SINGLE(0.64)
Carbon monoxide		LOGTRIANGULAR(0.11, 1.1, 5000.0)
Carbon tetrachloride (tetrachloromethane)		SINGLE(0.005)
Carbonyl sulphide		LOGTRIANGULAR(0.006, 0.2, 4.4)
Chlorobenzene		LOGUNIFORM(0.002, 3000.0)
Chlorodifluoromethane		LOGTRIANGULAR(0.005, 0.1, 9900.0)
Chloroethane		SINGLE(0.9)
Chlorofluorocarbons (CFCs) (Total)		LOGTRIANGULAR(0.06, 102.3, 1230.0)
Chlorofluoromethane		LOGTRIANGULAR(0.008, 0.2, 110.0)
Chloroform (trichloromethane)		LOGTRIANGULAR(1.00E-03, 2.00E-01, 7.00E+01)
Chlorotrifluoromethane		LOGTRIANGULAR(0.1, 0.2, 49.0)
Dichlorodifluoromethane		LOGTRIANGULAR(0.01, 9.0, 790.0)
Dichlorofluoromethane		LOGTRIANGULAR(1.00E-03, 1.00E-02, 6.02E+02)
Dichloromethane (methylene chloride)		LOGTRIANGULAR(1.00E-03, 2.00E-02, 1.52E+03)
Diethyl disulphide		LOGTRIANGULAR(1.00E-03, 2.00E-02, 2.60E+00)
Dimethyl disulphide		SINGLE(0.27)
Dimethyl sulphide		SINGLE(0.39)
Ethane		LOGTRIANGULAR(0.005, 6.25, 200.0)
Ethanethiol (ethyl mercaptan)		LOGUNIFORM(1.00E-30, 8.00E-02)
Ethanol		LOGTRIANGULAR(0.005, 0.2, 810.0)
Ethyl butyrate		SINGLE(0.73)
Ethyl toluene (all isomers)		LOGTRIANGULAR(1.00E-03, 1.00E-02, 8.30E+00)
Ethylbenzene		LOGTRIANGULAR(1.00E-03, 1.00E-03, 8.75E+02)
Ethylene		UNIFORM(0.2, 5.8)
Ethylene dibromide		SINGLE(0.0)
Ethylene dichloride		LOGTRIANGULAR(0.006, 0.01, 1820.0)
Fluorotrifluoromethane		LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.00E+03)
Formaldehyde (methanal)		SINGLE(0.19)

Freon 113		LOGTRIANGULAR(0.013, 4.8, 125.0)
Furan		SINGLE(0.58)
Halons		SINGLE(0.0)
Hexachlorocyclohexane (all isomers)		SINGLE(0.0)
Hexane		LOGTRIANGULAR(1.00E-03, 9.60E+00, 4.40E+01)
Hydrochlorofluorocarbons (HCFCs) (Total)		LOGTRIANGULAR(0.02, 128.8, 916.2)
Hydrofluorocarbons (HFCs) (Total)		SINGLE(0.0)
Hydrogen sulphide		LOGTRIANGULAR(2.4, 580.0, 1100.0)
Limonene		LOGTRIANGULAR(1.00E-03, 1.00E-01, 2.40E+02)
Mercury		LOGUNIFORM(1.70E-04, 1.33E-03)
Methanethiol (methyl mercaptan)		LOGUNIFORM(1.00E-30, 3.00E-01)
Methyl chloride (chloromethane)		LOGTRIANGULAR(0.006, 0.2, 10.0)
Methyl chloroform (1,1,1-Trichloroethane)		LOGTRIANGULAR(1.00E-03, 1.80E+02, 1.60E+03)
Methyl ethyl ketone (2-butanone)		LOGTRIANGULAR(0.005, 0.005, 73.0)
Methyl isobutyl ketone		LOGTRIANGULAR(0.005, 0.2, 9.9)
Nitric acid		SINGLE(0.0)
Odour Units (Predicted)		TRIANGULAR(5.00E+04, 1.25E+05, 2.50E+05)
PAH (reported as Naphthalene)		LOGTRIANGULAR(1.00E-03, 2.00E-01, 1.70E+01)
para-Dichlorobenzene (modelled as 1,4-Dichlorobenzene)		LOGTRIANGULAR(0.006, 0.05, 2.7)
Pentane		LOGTRIANGULAR(0.02, 0.3, 105.0)
Pentene (all isomers)		SINGLE(0.6)
Perfluorocarbons (PFCs) (Total)		SINGLE(0.0)
Phenol		SINGLE(0.0)
PM10s		SINGLE(0.0)
Propane		LOGTRIANGULAR(1.00E-03, 1.90E+00, 1.29E+01)
Propanethiol		LOGUNIFORM(1.00E-30, 9.00E-02)
Sulphide, total simulations with H2S		LOGTRIANGULAR(1.00E-03, 2.40E+00, 5.58E+03)
Sulphide, total simulations without H2S		LOGTRIANGULAR(5.00E-04, 8.00E-03, 3.50E+00)
t-1,2-Dichloroethene		LOGTRIANGULAR(0.02, 0.24, 2.6)
Tetrachloroethane (modelled as 1,1,2,2-Tetrachloroethane)		LOGUNIFORM(1.00E-03, 5.00E+01)
Tetrachloroethylene (Tetrachloroethene)		LOGTRIANGULAR(1.00E-03, 1.00E-02, 7.70E+03)
Toluene		LOGTRIANGULAR(0.01, 0.1, 1250.0)
Trichlorobenzene (all isomers)		LOGTRIANGULAR(0.01, 0.01, 0.13)
Trichloroethylene (trichloroethene)		SINGLE(1.62)
Trichlorofluoromethane		LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.00E+03)
Trichlorotrifluoroethane		LOGTRIANGULAR(1.00E-03, 4.80E+00, 2.40E+01)
Trimethylbenzene (all isomers)		LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.87E+02)
Vinyl chloride (chloroethene, chloroethylene)		SINGLE(0.53)
Xylene (all isomers)		LOGTRIANGULAR(1.00E-03, 1.00E-03, 6.18E+04)
Justification:	[Default]	Default Value
VOC Halflife		NORMAL(4.11, 1.56)
Justification:	[Default]	Default Value
<b>Waste Moisture Content</b>		
Degradation rate - Filling Phase		Average
Justification:	[Changed]	based on wet
Degradation rate - after change		User Defined 2
Justification:	[Changed]	based on average to wet
Waste Density		TRIANGULAR(0.98, 1.1, 1.26)
Justification:	[Changed]	Not Justified
Leachate Head		SINGLE(2.0)
Justification:	[Changed]	Not Justified
Hydraulic Conductivity		LOGUNIFORM(1.00E-09, 1.00E-05)
Justification:	[Default]	Default Value
<b>Engineered Controls</b>		
Cap		Single Liner
Cap Thickness		SINGLE(1.00E-03)
Cap Hydraulic Conductivity		SINGLE(1.00E-09)
Justifications		
Cap	[Changed]	design specification
Cap Thickness	[Changed]	design specification
Cap Hydraulic Conductivity	[Changed]	minimum requirement
liner		Single Clay
Liner Thickness		SINGLE(3.0)
Liner Hydraulic Conductivity		LOGUNIFORM(8.90E-11, 1.00E-09)
Justifications		
Liner	[Changed]	CQA Plan
Liner Thickness	[Changed]	CQA Plan
Liner Hydraulic Conductivity	[Changed]	minimum requirement
Justification:	[Default]	Default Value
Methane Oxidation %		SINGLE(10.0)
Justification:	[Default]	Default Value
Land Raise Depth		#UNDEFINED?
<b>Geosphere</b>		
Ground Surface (mAOD)		0
Water Table (mAOD)		0
Geosphere Moisture Content		UNIFORM(10.0, 30.0)
Geosphere Porosity		UNIFORM(15.0, 35.0)
<b>Cell 4</b>		
Infiltration		NORMAL(620.0, 100.0)
Justification:	[Changed]	Not Justified
<b>Waste Input</b>		

Year	Amount Deposited (t)
2007	SINGLE(0.0)
2008	SINGLE(0.0)
2009	SINGLE(0.0)
2010	SINGLE(0.0)
2011	SINGLE(6.47E+04)
2012	SINGLE(4.90E+04)
2013	SINGLE(6.23E+04)
2014	SINGLE(5.17E+04)
2015	SINGLE(5.33E+04)
2016	SINGLE(5.42E+04)
2017	SINGLE(7.60E+04)
2018	SINGLE(8.33E+04)
2019	SINGLE(1.22E+05)
2020	SINGLE(0.0)
2021	SINGLE(1.00E+05)
2022	SINGLE(1.33E+05)
2023	SINGLE(2.00E+05)
Justification:	[Changed] Not Justified
<b>Waste Breakdown</b>	
<b>2007</b>	
Domestic	SINGLE(15.0)
Industrial	SINGLE(10.0)
Inert	SINGLE(18.0)
Sewage Sludge	SINGLE(1.5)
Composted Organic Material	SINGLE(0.5)
Residues from MRF	SINGLE(55.0)
<b>2008</b>	
Domestic	SINGLE(15.0)
Industrial	SINGLE(10.0)
Inert	SINGLE(18.0)
Sewage Sludge	SINGLE(1.5)
Composted Organic Material	SINGLE(0.5)
Residues from MRF	SINGLE(55.0)
<b>2009</b>	
Domestic	SINGLE(17.6)
Commercial	SINGLE(1.8)
Industrial	SINGLE(12.6)
Inert	SINGLE(13.1)
Sewage Sludge	SINGLE(2.0)
Composted Organic Material	SINGLE(1.5)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	SINGLE(50.8)
Recycling Schemes	SINGLE(0.5)
<b>2010</b>	
Domestic	TRIANGULAR(11.0, 14.0, 17.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2011</b>	
Domestic	TRIANGULAR(11.0, 14.0, 17.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2012</b>	
Domestic	TRIANGULAR(11.0, 14.0, 17.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2013</b>	
Domestic	UNIFORM(10.0, 17.5)
Commercial	UNIFORM(0.0, 1.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(15.0, 29.0, 35.0)
Sewage Sludge	UNIFORM(1.5, 3.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	UNIFORM(32.0, 51.0)
Recycling Schemes	UNIFORM(0.5, 5.5)
<b>2014</b>	
Domestic	TRIANGULAR(5.0, 10.0, 15.0)

Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(35.0, 36.8, 40.0)
Sewage Sludge	TRIANGULAR(3.0, 3.7, 5.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.3)
Residues from MRF	TRIANGULAR(40.0, 41.0, 45.0)
Recycling Schemes	UNIFORM(0.0, 1.0)
<b>2015</b>	
Domestic	TRIANGULAR(5.0, 7.0, 10.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	UNIFORM(5.0, 12.5)
Inert	TRIANGULAR(35.0, 36.8, 40.0)
Sewage Sludge	TRIANGULAR(3.0, 3.7, 5.0)
Composted Organic Material	UNIFORM(0.0, 2.0)
Incinerator Ash	SINGLE(0.3)
Residues from MRF	TRIANGULAR(40.0, 41.0, 45.0)
Recycling Schemes	UNIFORM(0.0, 1.0)
<b>2016</b>	
Domestic	TRIANGULAR(1.0, 5.0, 7.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(8.0, 10.0, 12.0)
Inert	TRIANGULAR(13.0, 16.0, 19.0)
Sewage Sludge	UNIFORM(1.5, 2.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(50.0, 55.0, 57.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2017</b>	
Domestic	TRIANGULAR(0.5, 2.0, 3.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2018</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2019</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	TRIANGULAR(5.0, 16.2, 20.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2020</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2021</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF	TRIANGULAR(80.0, 83.6, 85.0)
Recycling Schemes	UNIFORM(0.5, 0.9)
<b>2022</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)

Residues from MRF Recycling Schemes	TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
<b>2023</b>	
Domestic	TRIANGULAR(0.5, 1.0, 3.0)
Commercial	UNIFORM(0.0, 2.0)
Industrial	TRIANGULAR(7.0, 9.6, 10.0)
Inert	TRIANGULAR(5.0, 6.8, 10.0)
Sewage Sludge	UNIFORM(0.0, 1.0)
Composted Organic Material	UNIFORM(1.0, 2.0)
Incinerator Ash	SINGLE(0.1)
Residues from MRF Recycling Schemes	TRIANGULAR(80.0, 83.6, 85.0) UNIFORM(0.5, 0.9)
Justification:	[Default] Default Value
<b>Trace Gases</b>	
<i>Source Gases</i>	Concentration [mg/m <sup>3</sup> ]
1,1,1,2-Tetrafluoroethane	LOGTRIANGULAR(0.002, 0.2, 2.0)
1,1,1-Trichlorotrifluoroethane	LOGTRIANGULAR(0.005, 0.4, 8.0)
1,1,2-Trichloroethane	LOGTRIANGULAR(0.004, 1.0, 10.0)
1,1-Dichloroethane	NORMAL(0.08, 0.02)
1,1-Dichloroethene	LOGTRIANGULAR(0.03, 2.8, 19.0)
1,1-Dichlorotetrafluoroethane	LOGTRIANGULAR(0.05, 0.25, 6.4)
1,2-Dichloropropane	SINGLE(0.0)
1,2-Dichlorotetrafluoroethane	LOGTRIANGULAR(0.01, 9.8, 300.0)
1-butanethiol	SINGLE(0.15)
1-Chloro-1,1-difluoroethane	LOGTRIANGULAR(0.04, 0.57, 31.0)
2-butoxy ethanol	SINGLE(0.19)
2-Chloro-1,1,1-trifluoroethane	LOGUNIFORM(0.05, 1.5)
2-Propanol	LOGTRIANGULAR(0.005, 2.0, 34.0)
Acetaldehyde (ethanal)	SINGLE(1.3)
Acetone	LOGTRIANGULAR(0.005, 0.1, 50.0)
Acrylonitrile	LOGTRIANGULAR(0.02, 0.4, 38.0)
Arsenic	SINGLE(0.04)
Benzene	SINGLE(1.39)
Bromodichloromethane	SINGLE(0.0)
Butadiene (modelled as 1,3-Butadiene)	SINGLE(0.11)
Butane	LOGTRIANGULAR(0.19, 1.0, 709.0)
Butene isomers	LOGTRIANGULAR(1.00E-03, 2.00E-01, 1.80E+00)
Butyric acid	SINGLE(0.18)
Carbon disulphide	SINGLE(0.64)
Carbon monoxide	LOGTRIANGULAR(0.11, 1.1, 5000.0)
Carbon tetrachloride (tetrachloromethane)	SINGLE(0.005)
Carbonyl sulphide	LOGTRIANGULAR(0.006, 0.2, 4.4)
Chlorobenzene	LOGUNIFORM(0.002, 3000.0)
Chlorodifluoromethane	LOGTRIANGULAR(0.005, 0.1, 9900.0)
Chloroethane	SINGLE(0.9)
Chlorofluorocarbons (CFCs) (Total)	LOGTRIANGULAR(0.06, 102.3, 1230.0)
Chlorofluoromethane	LOGTRIANGULAR(0.008, 0.2, 110.0)
Chloroform (trichloromethane)	LOGTRIANGULAR(1.00E-03, 2.00E-01, 7.00E+01)
Chlorotrifluoromethane	LOGTRIANGULAR(0.1, 0.2, 49.0)
Dichlorodifluoromethane	LOGTRIANGULAR(0.01, 9.0, 790.0)
Dichlorofluoromethane	LOGTRIANGULAR(1.00E-03, 1.00E-02, 6.02E+02)
Dichloromethane (methylene chloride)	LOGTRIANGULAR(1.00E-03, 2.00E-02, 1.52E+03)
Diethyl disulphide	LOGTRIANGULAR(1.00E-03, 2.00E-02, 2.60E+00)
Dimethyl disulphide	SINGLE(0.27)
Dimethyl sulphide	SINGLE(0.39)
Ethane	LOGTRIANGULAR(0.005, 6.25, 200.0)
Ethanethiol (ethyl mercaptan)	LOGUNIFORM(1.00E-30, 8.00E-02)
Ethanol	LOGTRIANGULAR(0.005, 0.2, 810.0)
Ethyl butyrate	SINGLE(0.73)
Ethyl toluene (all isomers)	LOGTRIANGULAR(1.00E-03, 1.00E-02, 8.30E+00)
Ethylbenzene	LOGTRIANGULAR(1.00E-03, 1.00E-03, 8.75E+02)
Ethylene	UNIFORM(0.2, 5.8)
Ethylene dibromide	SINGLE(0.0)
Ethylene dichloride	LOGTRIANGULAR(0.006, 0.01, 1820.0)
Fluorotrichloromethane	LOGTRIANGULAR(1.00E-03, 1.00E-02, 1.00E+03)
Formaldehyde (methanal)	SINGLE(0.19)
Freon 113	LOGTRIANGULAR(0.013, 4.8, 125.0)
Furan	SINGLE(0.58)
Halons	SINGLE(0.0)
Hexachlorocyclohexane (all isomers)	SINGLE(0.0)
Hexane	LOGTRIANGULAR(1.00E-03, 9.60E+00, 4.40E+01)
Hydrochlorofluorocarbons (HCFCs) (Total)	LOGTRIANGULAR(0.02, 128.8, 916.2)
Hydrofluorocarbons (HFCs) (Total)	SINGLE(0.0)
Hydrogen sulphide	LOGTRIANGULAR(2.4, 580.0, 1100.0)
Limonene	LOGTRIANGULAR(1.00E-03, 1.00E-01, 2.40E+02)
Mercury	LOGUNIFORM(1.70E-04, 1.33E-03)
Methanethiol (methyl mercaptan)	LOGUNIFORM(1.00E-30, 3.00E-01)
Methyl chloride (chloromethane)	LOGTRIANGULAR(0.006, 0.2, 10.0)
Methyl chloroform (1,1,1-Trichloroethane)	LOGTRIANGULAR(1.00E-03, 1.80E+02, 1.60E+03)
Methyl ethyl ketone (2-butanone)	LOGTRIANGULAR(0.005, 0.005, 73.0)
Methyl isobutyl ketone	LOGTRIANGULAR(0.005, 0.2, 9.9)
Nitric acid	SINGLE(0.0)
Odour Units (Predicted)	TRIANGULAR(5.00E+04, 1.25E+05, 2.50E+05)
PAH (reported as Naphthalene)	LOGTRIANGULAR(1.00E-03, 2.00E-01, 1.70E+01)
para-Dichlorobenzene (modelled as 1,4-Dichlorobenzene)	LOGTRIANGULAR(0.006, 0.05, 2.7)





January 2013 to December 2100		300 to 745	Downtime [%]: UNIFORM(3.0, 5.0)
Justification:	[Changed]	CLP Info	
Destruction Efficiency CH4	[Default]	Default Value	
Destruction Efficiency H2	[Default]	Default Value	
Properties	[Changed]	CLP Info	
<i>Engine A4 (J320)</i>		Spark Egnition Engine	
November 2017 to December 2100		300 to 745	Downtime [%]: UNIFORM(93.0, 95.0)
Justification:	[Changed]	CLP Info	
Destruction Efficiency CH4	[Default]	Default Value	
Destruction Efficiency H2	[Default]	Default Value	
Properties	[Changed]	CLP Info	
<i>Flare A3</i>		Flare	
April 2010 to December 2100		320 to 2000	Downtime [%]: UNIFORM(98.0, 100.0)
Justification:	[Changed]	CLP Info	
Destruction Efficiency CH4	[Default]	Default Value	
Destruction Efficiency H2	[Default]	Default Value	
Properties	[Changed]	CLP Info	
<i>Temporary Flare</i>		Flare	
January 2016 to December 2100		40 to 200	Downtime [%]: UNIFORM(0.0, 3.0)
Justification:	[Changed]	CLP Info	
Destruction Efficiency CH4	[Default]	Default Value	
Destruction Efficiency H2	[Default]	Default Value	
Properties	[Changed]	CLP Info	
<i>Initial Flare</i>		Flare	
April 2009 to March 2010		100 to 500	Downtime [%]: UNIFORM(1.0, 3.0)
Justification:	[Changed]	CLP Info	
Destruction Efficiency CH4	[Default]	Default Value	
Destruction Efficiency H2	[Default]	Default Value	
Properties	[Changed]	CLP Info	
Engine/Flare Order	[Changed]	CLP info	

## Trace Gas Plant

### 1,1,1,2-Tetrafluorochloroethane

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1,1,1-Trichlorotrifluoroethane

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1,1,2-Trichloroethane

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1,1-Dichloroethane

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1,1-Dichloroethene

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1,1-Dichlorotetrafluoroethane

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1,2-Dichloropropane

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1,2-Dichlorotetrafluoroethane

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1-butanethiol

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 1-Chloro-1,1-difluoroethane

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

### 2-butoxy ethanol

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

<b>2-Chloro-1,1,1-trifluoroethane</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>2-Propanol</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Acetalehyde (ethanal)</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Acetone</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Acrylonitrile</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Arsenic</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Benzene</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Benzo(a)pyrene</b>		
Spark Egnition Engine :	combustion products	LOGUNIFORM(1.10E-12, 9.60E-10)
Dual Fuel Engine:	combustion products	LOGUNIFORM(1.10E-12, 9.60E-10)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	LOGUNIFORM(1.00E-06, 6.00E-04)
<b>Bromodichloromethane</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Butadiene (modelled as 1,3-Butadiene)</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Butane</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Butene isomers</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Butyric acid</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Carbon disulphide</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Carbon monoxide</b>		
Spark Egnition Engine :	combustion products	LOGTRIANGULAR(508.0, 1311.0, 1969.0)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	LOGTRIANGULAR(26.0, 294.0, 2178.0)
<b>Carbon tetrachloride (tetrachloromethane)</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Carbonyl sulphide</b>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<b>Chlorobenzene</b>		

Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Chlorodifluoromethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Chloroethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Chlorofluorocarbons (CFCs) (Total)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Chlorofluoromethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Chloroform (trichloromethane)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Chlorotrifluoromethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Dichlorodifluoromethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Dichlorofluoromethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Dichloromethane (methylene chloride)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Diethyl disulphide</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Dimethyl disulphide</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Dimethyl sulphide</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Dioxins and furans (modelled as 2,3,7,8-TCDD)</i>		
Spark Egnition Engine :	combustion products	LOGUNIFORM(7.00E-10, 2.30E-06)
Dual Fuel Engine:	combustion products	LOGUNIFORM(7.00E-10, 2.30E-06)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	LOGTRIANGULAR(9.00E-09, 3.10E-08, 3.60E-07)
<i>Ethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Ethanethiol (ethyl mercaptan)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Ethanol</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Ethyl butyrate</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)

Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Ethyl toluene (all isomers)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Ethylbenzene</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Ethylene</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Ethylene dibromide</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Ethylene dichloride</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Fluorotrichloromethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Formaldehyde (methanal)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Freon 113</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Furan</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Halons</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Hexachlorocyclohexane (all isomers)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Hexane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Hydrochlorofluorocarbons (HCFCs) (Total)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Hydrofluorocarbons (HFCs) (Total)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Hydrogen chloride, or (Total chloride (reported as HCl))</i>		
Spark Egnition Engine :	combustion products	LOGTRIANGULAR(5.00E-04, 1.00E+01, 5.84E+02)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	LOGUNIFORM(0.5, 36.0)
<i>Hydrogen fluoride, or (Total fluoride (reported as HF))</i>		
Spark Egnition Engine :	combustion products	LOGTRIANGULAR(2.00E-04, 7.00E+00, 4.50E+01)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	LOGUNIFORM(0.4, 21.0)
<i>Hydrogen sulphide</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)

Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Limonene</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Mercury</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Methanethiol (methyl mercaptan)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Methyl chloride (chloromethane)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Methyl chloroform (1,1,1-Trichloroethane)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Methyl ethyl ketone (2-butanone)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Methyl isobutyl ketone</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Nitric acid</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Nitrogen dioxide (NO2)</i>		
Spark Egnition Engine :	combustion products	SINGLE(0.0)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	SINGLE(0.0)
<i>Nitrogen monoxide (NO)</i>		
Spark Egnition Engine :	combustion products	SINGLE(0.0)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	SINGLE(0.0)
<i>Nitrogen oxides (NOx)</i>		
Spark Egnition Engine :	combustion products	LOGUNIFORM(330.0, 2132.0)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	TRIANGULAR(43.0, 85.0, 149.0)
<i>Odour Units (Predicted)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>PAH (reported as Naphthalene)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>para-Dichlorobenzene (modelled as 1,4-Dichlorobenzene)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Pentane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Pentene (all isomers)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Perfluorocarbons (PFCs) (Total)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)

Flare:	non-combustion products	SINGLE(99.0)
<i>Phenol</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>PM10s</i>		
Spark Egnition Engine :	combustion products	TRIANGULAR(1.2, 4.6, 12.5)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	UNIFORM(1.0, 10.0)
<i>Propane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Propanethiol</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Sulphide, total simulations with H2S</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Sulphide, total simulations without H2S</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Sulphur dioxide</i>		
Spark Egnition Engine :	combustion products	LOGUNIFORM(18.0, 402.0)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	UNIFORM(0.0, 482.0)
<i>t-1,2-Dichloroethene</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Tetrachloroethane (modelled as 1,1,2,2-Tetrachloroethane)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Tetrachloroethylene (Tetrachloroethene)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Toluene</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Total non-methane volatile organic compounds (NMVOCs)</i>		
Spark Egnition Engine :	combustion products	LOGTRIANGULAR(0.0118, 18.1, 90.0)
Dual Fuel Engine:	combustion products	TRIANGULAR(0.0118, 18.1, 90.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	LOGUNIFORM(1.0, 30.0)
<i>Total volatile organic compounds (VOCs)</i>		
Spark Egnition Engine :	combustion products	LOGTRIANGULAR(0.0118, 18.1, 90.0)
Dual Fuel Engine:	combustion products	SINGLE(0.0)
Other Engine:	combustion products	SINGLE(0.0)
Flare:	combustion products	LOGUNIFORM(52.0, 3920.0)
<i>Trichlorobenzene (all isomers)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Trichloroethylene (trichloroethene)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Trichlorofluoromethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Trichlorotrifluoroethane</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)

<i>Trimethylbenzene (all isomers)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Vinyl chloride (chloroethene, chloroethylene)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
<i>Xylene (all isomers)</i>		
Spark Egnition Engine :	non-combustion products	SINGLE(99.0)
Dual Fuel Engine:	non-combustion products	SINGLE(99.0)
Other Engine:	non-combustion products	SINGLE(99.0)
Flare:	non-combustion products	SINGLE(99.0)
Justification:	[Changed]	based on CLP raw LFG composition 2019

## Global Impact

### Bulk Gases

Global Warming Potential		
Carbon Dioxide [t]:	1	
Methane [t carbon dioxide]:	21	
Hydrogen [t carbon dioxide]:	0	
Justification:	[Default]	Default Value
Ozone Depletion Potential		
Carbon Dioxide [t trichlorofluoromethane]:	0	
Methane [t trichlorofluoromethane]:	0	
Hydrogen [t trichlorofluoromethane]:	0	
Justification:	[Default]	Default Value

### Trace Gases

Gas	Global Warming Potential	Ozone Depletion Potential
1,1,1,2-Tetrafluorochloroethane	609	0.02
1,1,1-Trichlorotrifluoroethane	6130	1
1,1,2-Trichloroethane	0	0
1,1-Dichloroethane	0	0
1,1-Dichloroethene	0	0
1,1-Dichlorotetrafluoroethane	10000	0.94
1,2-Dichloropropane	0	0
1,2-Dichlorotetrafluoroethane	0	0
1-butanethiol	0	0
1-Chloro-1,1-difluoroethane	2310	0.07
2-butoxy ethanol	0	0
2-Chloro-1,1,1-trifluoroethane	0	0
2-Propanol	0	0
Acetaldehyde (ethanal)	1.3	0
Acetone	0.5	0
Acrylonitrile	0	0
Arsenic	0	0
Benzene	0	0
Benzo(a)pyrene	0	0
Bromodichloromethane	1300	1890
Butadiene (modelled as 1,3-Butadiene)	0	0
Butane	4	0
Butene isomers	0	0
Butyric acid	0	0
Carbon disulphide	0	0
Carbon monoxide	0	0
Carbon tetrachloride (tetrachloromethane)	1400	0.73
Carbonyl sulphide	0	0
Chlorobenzene	0	0
Chlorodifluoromethane	1810	0.05
Chloroethane	0	0
Chlorofluorocarbons (CFCs) (Total)	0	0
Chlorofluoromethane	0	0
Chloroform (trichloromethane)	30	0
Chlorotrifluoromethane	14400	0
Dichlorodifluoromethane	10900	1
Dichlorofluoromethane	210	0
Dichloromethane (methylene chloride)	9	0
Diethyl disulphide	0	0
Dimethyl disulphide	0	0
Dimethyl sulphide	0	0
Dioxins and furans (modelled as 2,3,7,8-TCDD)	0	0
Ethane	5.5	0
Ethanethiol (ethyl mercaptan)	0	0
Ethanol	0	0
Ethyl butyrate	0	0
Ethyl toluene (all isomers)	0	0
Ethylbenzene	0	0
Ethylene	3.7	0
Ethylene dibromide	0	0
Ethylene dichloride	0	0
Fluorotrifluoromethane	4750	1
Formaldehyde (methanal)	0	0
Freon 113	6130	1

Furan	0	0
Halons	0	0
Hexachlorocyclohexane (all isomers)	0	0
Hexane	0	0
Hydrochlorofluorocarbons (HCFCs) (Total)	0	0
Hydrofluorocarbons (HFCs) (Total)	0	0
Hydrogen chloride, or (Total chloride (reported as HCl))	0	0
Hydrogen fluoride, or (Total fluoride (reported as HF))	0	0
Hydrogen sulphide	0	0
Limonene	0	0
Mercury	0	0
Methanethiol (methyl mercaptan)	0	0
Methyl chloride (chloromethane)	146	0
Methyl chloroform (1,1,1-Trichloroethane)	0	0
Methyl ethyl ketone (2-butanone)	0	0
Methyl isobutyl ketone	0	0
Nitric acid	0	0
Nitrogen dioxide (NO2)	0	0
Nitrogen monoxide (NO)	0	0
Nitrogen oxides (NOx)	0	0
Odour Units (Predicted)	0	0
PAH (reported as Naphthalene)	0	0
para-Dichlorobenzene (modelled as 1,4-Dichlorobenzene)	0	0
Pentane	0	0
Pentene (all isomers)	0	0
Perfluorocarbons (PFCs) (Total)	0	0
Phenol	0	0
PM10s	0	0
Propane	3.3	0
Propanethiol	0	0
Sulphide, total simulations with H2S	0	0
Sulphide, total simulations without H2S	0	0
Sulphur dioxide	0	0
t-1,2-Dichloroethene	0	0
Tetrachloroethane (modelled as 1,1,2,2-Tetrachloroethane)	0	0
Tetrachloroethylene (Tetrachloroethene)	0	0
Toluene	2.7	0
Total non-methane volatile organic compounds (NMVOCs)	0	0
Total volatile organic compounds (VOCs)	0	0
Trichlorobenzene (all isomers)	0	0
Trichloroethylene (trichloroethene)	0	0
Trichlorofluoromethane	4750	1
Trichlorotrifluoroethane	6130	1
Trimethylbenzene (all isomers)	0	0
Vinyl chloride (chloroethene, chloroethylene)	0	0
Xylene (all isomers)	0	0

## Lateral Migration

### Bulk Gases

Air Diffusion Coefficients	
CO2 Dispersivity	SINGLE(0.1613)
CH4 Dispersivity	SINGLE(0.2192)
H2 Dispersivity	#UNDEFINED?
Justification:	[Default] Default values

### Geosphere

Cell	Cell 2
Geosphere Moisture Content	UNIFORM(10.0, 30.0)
Geosphere Porosity	UNIFORM(15.0, 35.0)
Cell	Cell 1 defined
Geosphere Moisture Content	UNIFORM(10.0, 30.0)
Geosphere Porosity	UNIFORM(15.0, 35.0)
Cell	Cell 3
Geosphere Moisture Content	UNIFORM(10.0, 30.0)
Geosphere Porosity	UNIFORM(15.0, 35.0)
Cell	Cell 4
Geosphere Moisture Content	UNIFORM(10.0, 30.0)
Geosphere Porosity	UNIFORM(15.0, 35.0)
Justification:	[Changed] LFG RA 2010

### Trace Gases

Gas	Air Diffusion Coefficient
1,1,1,2-Tetrafluorochloroethane	SINGLE(0.071)
1,1,1-Trichlorotrifluoroethane	#UNDEFINED?
1,1,2-Trichloroethane	#UNDEFINED?
1,1-Dichloroethane	SINGLE(0.0742)
1,1-Dichloroethene	#UNDEFINED?
1,1-Dichlorotetrafluoroethane	#UNDEFINED?
1,2-Dichloropropane	#UNDEFINED?
1,2-Dichlorotetrafluoroethane	#UNDEFINED?
1-butanethiol	#UNDEFINED?
1-Chloro-1,1-difluoroethane	#UNDEFINED?



2-butoxy ethanol	#UNDEFINED?
2-Chloro-1,1,1-trifluoroethane	#UNDEFINED?
2-Propanol	#UNDEFINED?
Acetaldehyde (ethanal)	SINGLE(0.1235)
Acetone	#UNDEFINED?
Acrylonitrile	#UNDEFINED?
Arsenic	#UNDEFINED?
Benzene	SINGLE(0.088)
Benzo(a)pyrene	SINGLE(0.043)
Bromodichloromethane	#UNDEFINED?
Butadiene (modelled as 1,3-Butadiene)	SINGLE(0.102)
Butane	#UNDEFINED?
Butene isomers	SINGLE(0.0977)
Butyric acid	#UNDEFINED?
Carbon disulphide	SINGLE(0.108)
Carbon monoxide	SINGLE(0.2013)
Carbon tetrachloride (tetrachloromethane)	SINGLE(0.078)
Carbonyl sulphide	#UNDEFINED?
Chlorobenzene	SINGLE(0.073)
Chlorodifluoromethane	#UNDEFINED?
Chloroethane	SINGLE(0.1085)
Chlorofluorocarbons (CFCs) (Total)	SINGLE(0.0826)
Chlorofluoromethane	#UNDEFINED?
Chloroform (trichloromethane)	SINGLE(0.104)
Chlorotrifluoromethane	#UNDEFINED?
Dichlorodifluoromethane	#UNDEFINED?
Dichlorofluoromethane	#UNDEFINED?
Dichloromethane (methylene chloride)	SINGLE(0.099)
Diethyl disulphide	#UNDEFINED?
Dimethyl disulphide	SINGLE(0.0898)
Dimethyl sulphide	SINGLE(0.0898)
Dioxins and furans (modelled as 2,3,7,8-TCDD)	SINGLE(0.104)
Ethane	#UNDEFINED?
Ethanethiol (ethyl mercaptan)	#UNDEFINED?
Ethanol	#UNDEFINED?
Ethyl butyrate	#UNDEFINED?
Ethyl toluene (all isomers)	SINGLE(0.0796)
Ethylbenzene	#UNDEFINED?
Ethylene	SINGLE(0.0796)
Ethylene dibromide	#UNDEFINED?
Ethylene dichloride	SINGLE(0.104)
Fluorotrichloromethane	#UNDEFINED?
Formaldehyde (methanal)	SINGLE(0.1591)
Freon 113	#UNDEFINED?
Furan	#UNDEFINED?
Halons	SINGLE(0.0754)
Hexachlorocyclohexane (all isomers)	#UNDEFINED?
Hexane	#UNDEFINED?
Hydrochlorofluorocarbons (HCFCs) (Total)	SINGLE(0.0967)
Hydrofluorocarbons (HFCs) (Total)	#UNDEFINED?
Hydrogen chloride, or (Total chloride (reported as HCl))	SINGLE(0.1763)
Hydrogen fluoride, or (Total fluoride (reported as HF))	SINGLE(0.2081)
Hydrogen sulphide	SINGLE(0.1623)
Limonene	#UNDEFINED?
Mercury	#UNDEFINED?
Methanethiol (methyl mercaptan)	#UNDEFINED?
Methyl chloride (chloromethane)	SINGLE(0.1724)
Methyl chloroform (1,1,1-Trichloroethane)	SINGLE(0.078)
Methyl ethyl ketone (2-butanone)	#UNDEFINED?
Methyl isobutyl ketone	#UNDEFINED?
Nitric acid	#UNDEFINED?
Nitrogen dioxide (NO2)	SINGLE(0.2276)
Nitrogen monoxide (NO)	SINGLE(0.2276)
Nitrogen oxides (NOx)	SINGLE(0.2276)
Odour Units (Predicted)	#UNDEFINED?
PAH (reported as Naphthalene)	SINGLE(0.059)
para-Dichlorobenzene (modelled as 1,4-Dichlorobenzene)	SINGLE(0.069)
Pentane	SINGLE(0.1999)
Pentene (all isomers)	SINGLE(0.1999)
Perfluorocarbons (PFCs) (Total)	SINGLE(0.071)
Phenol	#UNDEFINED?
PM10s	#UNDEFINED?
Propane	#UNDEFINED?
Propanethiol	#UNDEFINED?
Sulphide, total simulations with H2S	#UNDEFINED?
Sulphide, total simulations without H2S	#UNDEFINED?
Sulphur dioxide	SINGLE(0.1289)
t-1,2-Dichloroethene	#UNDEFINED?
Tetrachloroethane (modelled as 1,1,2,2-Tetrachloroethane)	SINGLE(0.071)
Tetrachloroethylene (Tetrachloroethene)	SINGLE(0.072)
Toluene	SINGLE(0.087)

Total non-methane volatile organic compounds (NMVOCs)		#UNDEFINED?
Total volatile organic compounds (VOCs)		#UNDEFINED?
Trichlorobenzene (all isomers)		SINGLE(0.03)
Trichloroethylene (trichloroethene)		SINGLE(0.079)
Trichlorofluoromethane		#UNDEFINED?
Trichlorotrifluoroethane		#UNDEFINED?
Trimethylbenzene (all isomers)		SINGLE(0.0619)
Vinyl chloride (chloroethene, chloroethylene)		SINGLE(0.1126)
Xylene (all isomers)		SINGLE(0.0684)
Justification:	[Default]	Default Value