Doc 1

19 NOV 2020

siteserv recycling

Growers details.	
Name	**Mr E Lucas**
Address	Pwllydarren Farm Welsh St Donats Cowbridge Vale of Glamorgan
Post code	CF7 7SS
Telephone Number	01446 772300
Fax	
Mobile	
E-Mail	

Operators Details	
Name	**Siteserv Recycling Ltd**
Address	Triple Crown House Llandow Vale of Glamorgan
Post code	CF71 7PB
Telephone Number	01446 795430
Fax	
Mobile	
E-Mail	paul.roberts@siteservrecycling.com

Landowner	R A England & Sons
Address (if different)	Pwllydarren Farm Welsh St Donats Cowbridge Vale of Glamorgan
Post code	CF7 7SS
Telephone Number	
Mobile	
Fax	
E-Mail	

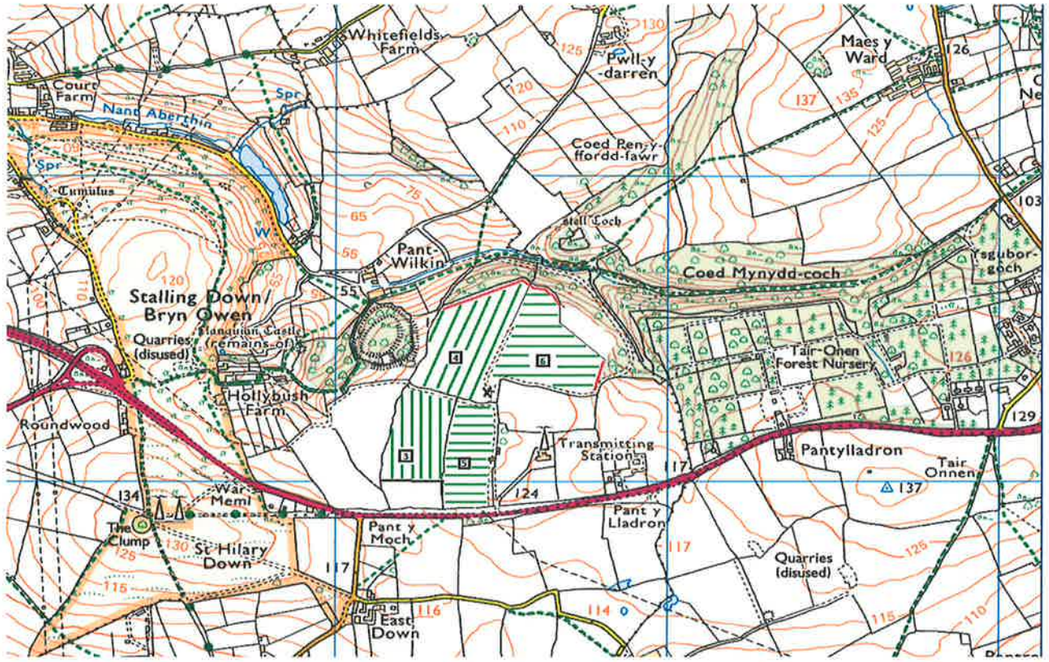
Sampled By	P Roberts
Date Sampled	11.09.19
Our Ref	NW 001/20
EA Ref	
Delivery Date	Jan-21
Cheque No.	

Cropping

Field number/name	Size(ha)	Spreadable Area	Proposed app/rate t/ha	Required DIPS	Current crop	Next crop	Incorpor method
3 ST 0223 7411`	4.6	4.6	70	322	Grass Ley	W Wheat	Plough
4 ST 0238 7444	8.1	8	70	560	Maize	W Wheat	Plough
5 ST 0240 7409	4.7	4.7	70	329	Grass Ley	W Wheat	Plough
6 ST 0265 7438	7.3	7.2	70	504	Maize	W Wheat	Plough
Total	**24.7**	**24.5**		**1715**			

Farmer : Mr E Lucas Pwllydarren Farm Cowbridge #

Soil and DIPS Analysis



Soil Analysis	Index	
Ph	8	
Texture	CL	
P	23.6	2
K	106	1
Mg	43.3	1
OM	9.1	
Cu	27	
Zn	148.00	
Pb	67.7	
Cd	0.95	
Ni	27.7	
Cr	39.7	
Hg	0.2	

Bridgend N&W Waste Analysis		
Site		
Ph	4.9	
NV	<1	%ww
EC	136	
DM	47.3	%
N	1.01	%ww
P	1142.00	mg/kg
K	103	mg/kg
Mg	344	mg/kg
S	1536	mg/kg
Na	351	mg/kg
Cu	28.4	Mg/Kg
Zn	78.4	Mg/Kg
Hg	0.13	Mg/Kg
Cr	31	Mg/Kg
Cd	0.1	Mg/Kg
Ni	6.8	Mg/Kg
Pb	3.78	Mg/Kg

Proposed	Application Rate	Spread Area	DIPS Tonnage
	70	**4.6**	**322**

High Risk — Watercourses - 10 m margin - Borehole 50 m margin

Medium Risk — Woodland and Footpath 5m margin

Field Overview

Size (ha) 4.6

Field 3

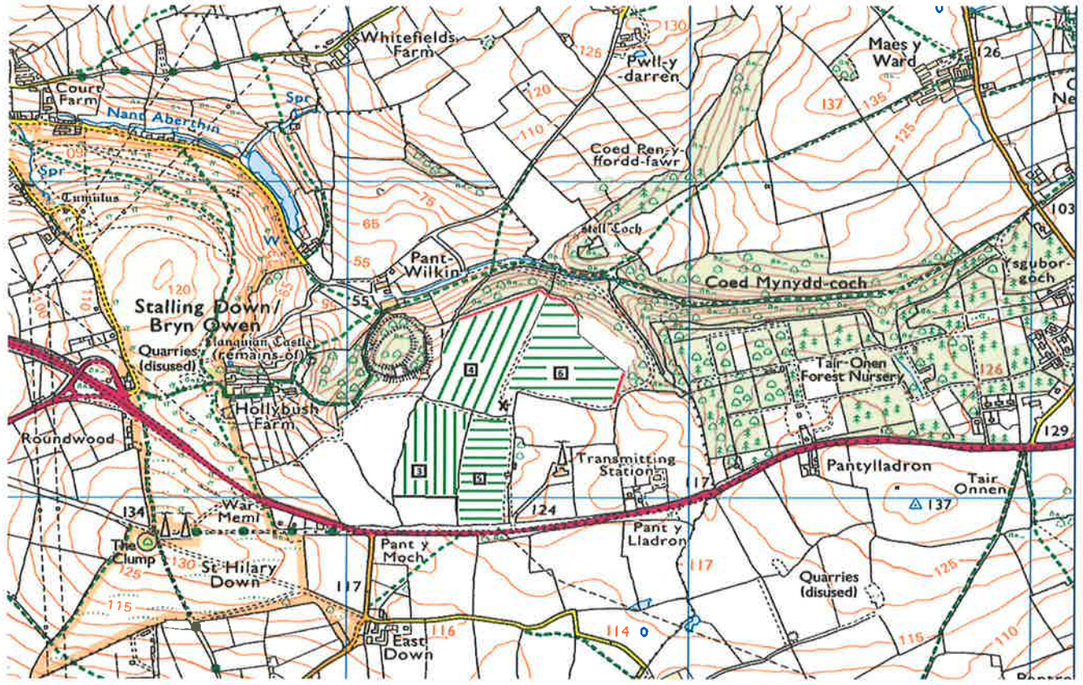
Soil report No 69980-19

Total Nutrients Oxides SCA Sludge		Crop Requirment Based on RB209 and soil indicies		Balance
		W Wheat	8 t/ha straw removed	
		SNS	**1**	
N	240.0 kg	220 kg/ha N		**-220.0**
P	63.0 kg	60 kg/ha P^2o^5		**-60.0**
K	36.0 kg	75 kg/ha K^2o		**-75.0**
Mg	25.0 kg	0 kg/ha Mgo		**0.0**
S	139.0 kg	50 kg/ha SO_3	Depending	-50

NOTE. Of the Total nitrogen supplied by this application of paper sludge, none is available to the following crop in year 1.

Farmer : Mr E Lucas Pwllydarren Farm Cowbridge #

Soil and DIPS Analysis



Soil Analysis	Index	
Ph	7.9	
Texture	CL	
P	16.6	2
K	114	1
Mg	51.5	2
OM	8.1	
Cu	28.7	
Zn	210.00	
Pb	102	
Cd	1.43	
Ni	30.2	
Cr	41.5	
Hg	0.2	

Bridgend N&W Waste Analysis		
Site		
Ph	4.9	
NV	<1	%ww
EC	136	
DM	47.3	%
N	1.01	%ww
P	1142.00	mg/kg
K	103	mg/kg
Mg	344	mg/kg
S	1536	mg/kg
Na	351	mg/kg
Cu	28.4	Mg/Kg
Zn	78.4	Mg/Kg
Hg	0.13	Mg/Kg
Cr	31	Mg/Kg
Cd	0.1	Mg/Kg
Ni	6.8	Mg/Kg
Pb	3.78	Mg/Kg

Proposed	Application Rate	Spread Area	DIPS Tonnage
	70	**8**	**560**

High Risk — Watercourses - 10 m margin - Borehole 50 m margin

Medium Risk — Woodland and Footpath 5m margin

Field Overview

Size (ha) 8.1

Field 4

Soil report No 69980-19

Total Nutrients Oxides SCA Sludge		Crop Requirment Based on RB209 and soil indicies W Wheat 8 t/ha straw removed SNS 1		Balance	
N	240.0 kg	220	kg/ha N	**20.0**	
P	63.0 kg	60	kg/ha P^2o^5	**3.0**	
K	36.0 kg	75	kg/ha K^2o	**-39.0**	
Mg	25.0 kg	0	kg/ha Mgo	**25.0**	
S	139.0 kg	50	kg/ha SO_3	Depending	89

NOTE. Of the Total nitrogen supplied by this application of paper sludge, none is available to the following crop in year 1.

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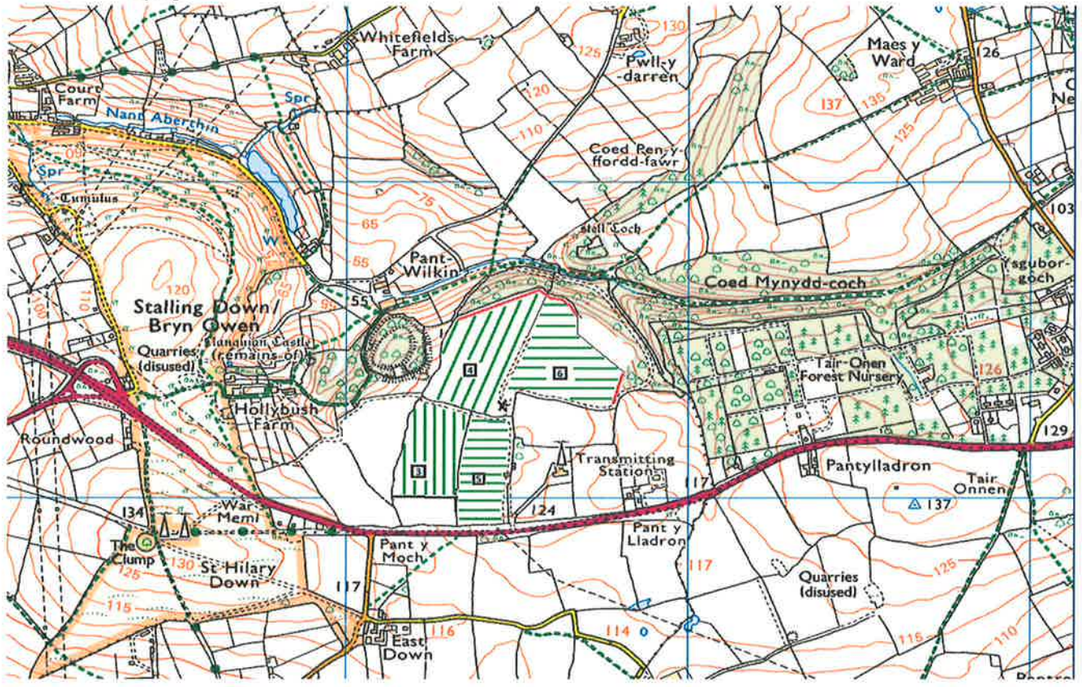
Farmer : Mr E Lucas Pwllydarren Farm Cowbridge #



High Risk — Watercourses - 10 m margin - Borehole 50 m margin

Medium Risk — Woodland and Footpath 5m margin

Soil and DIPS Analysis

Soil Analysis		Index
Ph	8.1	
Texture	CL	
P	59.8	4
K	156	2-
Mg	47.7	1
OM	7	
Cu	20.8	
Zn	139.00	
Pb	63.9	
Cd	0.94	
Ni	27.1	
Cr	36.7	
Hg	0.2	

Bridgend N&W Waste Analysis		
Site		
Ph	4.9	
NV	<1	%ww
EC	136	
DM	47.3	%
N	1.01	%ww
P	1142.00	mg/kg
K	103	mg/kg
Mg	344	mg/kg
S	1536	mg/kg
Na	351	mg/kg
Cu	28.4	Mg/Kg
Zn	78.4	Mg/Kg
Hg	0.13	Mg/Kg
Cr	31	Mg/Kg
Cd	0.1	Mg/Kg
Ni	6.8	Mg/Kg
Pb	3.78	Mg/Kg

Proposed	Application Rate	Spread Area	DIPS Tonnage
	70	4.7	329

Field Overview

Size (ha) 4.7

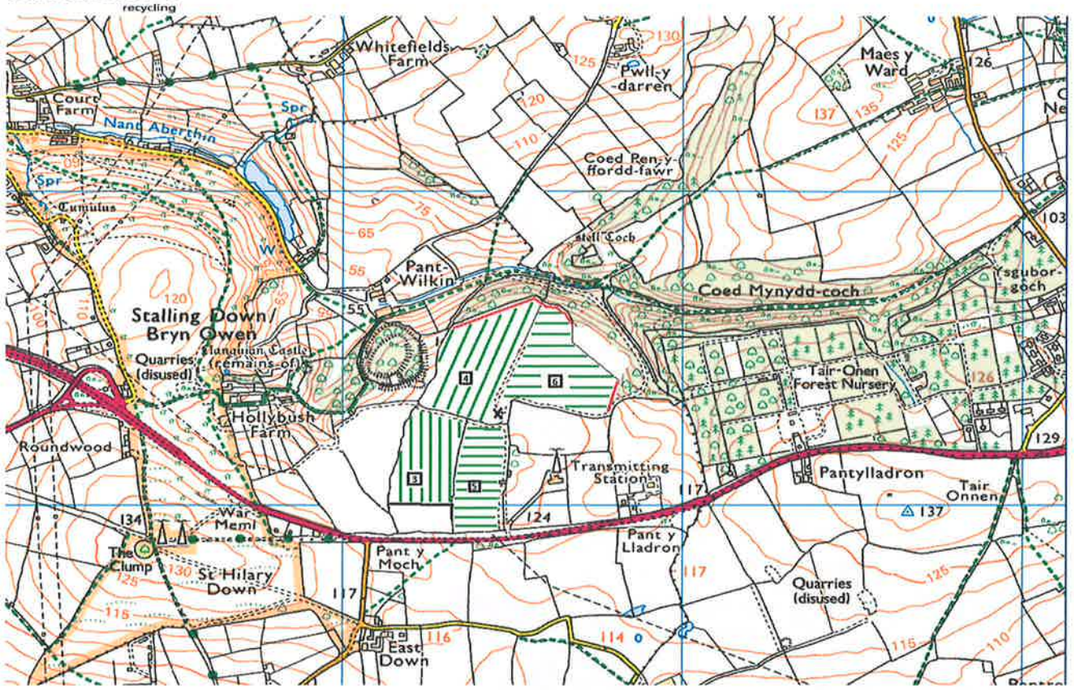
Field 5

Soil report No 69980-19

Total Nutrients Oxides SCA Sludge		Crop Requirment Based on RB209 and soil indicies W Wheat 8 t/ha straw removed SNS 1		Balance
N	240.0 kg	220	kg/ha N	-220.0
P	63.0 kg	0	kg/ha P^2o^5	0.0
K	36.0 kg	45	kg/ha K^2o	-45.0
Mg	25.0 kg	0	kg/ha Mgo	0.0
S	139.0 kg	50	kg/ha SO_3	Depending -50

NOTE. Of the Total nitrogen supplied by this application of paper sludge, none is available to the following crop in year 1.

Farmer : Mr E Lucas Pwllydarren Farm Cowbridge #



High Risk — Watercourses - 10 m margin - Borehole 50 m margin

Medium Risk — Woodland and Footpath 5m margin

Soil and DIPS Analysis

Soil Analysis		Index
Ph	8	
Texture	CL	
P	27.8	3
K	80.6	1
Mg	37.9	1
OM	7.7	
Cu	24.3	
Zn	145.00	
Pb	56.8	
Cd	0.91	
Ni	24.9	
Cr	36.2	
Hg	0.2	

Bridgend N&W Waste Analysis		
Site		
Ph	4.9	
NV	<1	%ww
EC	136	
DM	47.3	%
N	1.01	%ww
P	1142.00	mg/kg
K	103	mg/kg
Mg	344	mg/kg
S	1536	mg/kg
Na	351	mg/kg
Cu	28.4	Mg/Kg
Zn	78.4	Mg/Kg
Hg	0.13	Mg/Kg
Cr	31	Mg/Kg
Cd	0.1	Mg/Kg
Ni	6.8	Mg/Kg
Pb	3.78	Mg/Kg

Proposed	Application Rate	Spread Area	DIPS Tonnage
	70	**7.2**	**504**

Field Overview

Size (ha) 7.3

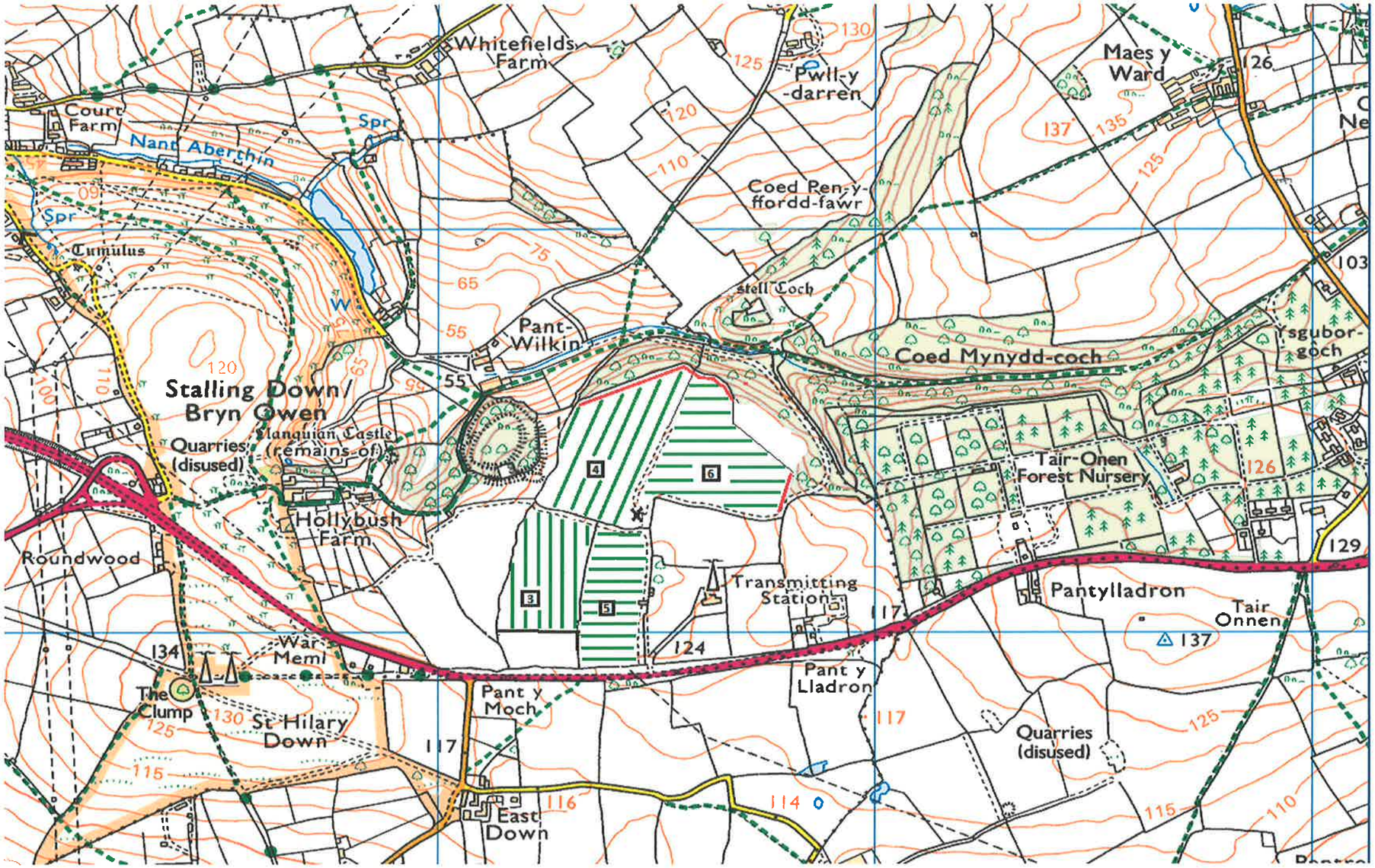
Field 6

Soil report No 69980-19

Total Nutrients Oxides		Crop Requirment		Balance
Intertissue Sludge		Based on RB209 and soil indicies **W Wheat** 8 t/ha straw removed		
		SNS **1**		
N	240.0 kg	220 kg/ha N		**-220.0**
P	63.0 kg	0 kg/ha P^2o^5		**0.0**
K	36.0 kg	75 kg/ha K^2o		**-75.0**
Mg	25.0 kg	0 kg/ha Mgo		**0.0**
S	139.0 kg	50 kg/ha SO_3	Depending	-50

NOTE. Of the Total nitrogen supplied by this application of paper sludge, none is available to the following crop in year 1.

Farmer : Mr E Lucas Pwllydarren Farm Welsh St Donats Cowbridge



Overview of fields

Stockpile - location ST 0246 7427

Risk Assessment

Field No.	Features	Waste Properties	Harm	Pathway	Level Of Risk	Risk management	Overall Risk	Justification
N/A	**Watercourses**	Nurient enrichment. High BOD.	Eutrophication in the water course can be a threat to plant and animal life through a decrease in oxygen and an increase in algal growth. Decrease in available Oxygen due to high BOD.	Spreading	Medium	10 m exclusion zone	Low	
N/A	**Pond**	Nurient enrichment. High BOD.	Eutrophication in the water course can be a threat to plant and animal life through a decrease in oxygen and an increase in algal growth. Decrease in available Oxygen due to high BOD.	Spreading	Medium	10 m exclusion zone	Low	
N/A	**Houses**	Slight smell, blue colour	Nuisance to the public caused by slight smell and colouration.	Spreading	High	10 m margin around dwellings	Low	
N/A	**Boreholes /Wells/Spring**	Nurient enrichment. High BOD.	Pollution of drinking water supplies.	Seepage through soil profile	Medium	50 m exclusion zone	Low	
None	**Mineshafts**							No mineshafts
N/A	**Footpaths**	Slight smell when wet. Blue colour.	Visible nuisance. Slight smell when wet.	Spreading	Medium	Avoid all footpaths	Low	
4,6	**Woodland**	Slight smell when wet. Blue colour.	Potential nutrient enrichment	Spreading	Medium	Avoid all woodland	Low	risk low if 10 m no spread margin
N/A	**SSSI**	Nurient enrichment. High BOD.	Nutrient enrichmet of SSSI and effect on biodiversity	Spreading	Medium	SSSI around 500m from spreading area	V Low	

Risk Assessment Stockpiles

Field No.	Features	Waste Properties	Harm	Pathway	Level Of Risk	Risk management	Overall Risk	Justification
N/A	**Watercourses**	Nurient enrichment. High BOD.	Eutrophication in the water course can be a threat to plant and animal life through a decrease in oxygen and an increase in algal growth. Decrease in available Oxygen due to high BOD.	Seepage / direct contamination from stockpile	Medium	Min 10 m exclusion zone, No slope on field.	Low	
N/A	**Pond**	Nurient enrichment. High BOD.	Eutrophication in the water course can be a threat to plant and animal life through a decrease in oxygen and an increase in algal growth. Decrease in available Oxygen due to high BOD.	Seepage / direct contamination from stockpile	Medium	10 m exclusion zone	Low	
N/A	**Houses**	Slight smell.	Nuisance to the public caused by slight smell.	Close proximity to houses with aerosol effect	High	At least 50 m margin from dwellings	Low	
N/A	**Boreholes /Wells/Spring**	Nurient enrichment. High BOD.	Pollution of drinking water supplies.	Seepage through soil profile	Medium	50 m exclusion zone	Low	
4	**Slope**	Potential slump	Pollution potential although no immediate receptors	Direct transfer	Medium dependant on weather conditions	High DM waste with no slump risk. Stockpiles profiled to shed water.	Low	Both potential stockpile areas with little slope and no receptors in vicinity
N/A	**Footpaths**	Slight smell.	Visible nuisance. Slight smell.		Medium	Avoid all footpaths	Low	
N/A	**Woodland**	Slight smell.	Potential nutrient enrichment		Medium	Allow 10 m margin to all woodland	Low	
N/A	**SSSI**	Nurient enrichment. High BOD.	Nutrient enrichmet of SSSI and effect on biodiversity		Medium	SSSI around 500m from spreading area	V Low	