



Purchase Order : 48248

JONATHAN LLOYD
WHITES RECYCLING LTD
THE MINE SITE
SOUTH WITHAM
GRANTHAM
NG33 5QN

T307

Please quote above code for all enquiries

11611

LIQUID WASTE

Sun Valley

LIQUID WASTE

Sample Reference :

11611

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81476
Sample Number	90288

Date Received	17-DEC-2019
Date Reported	02-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Oven Dry Solids	8.20	%
Conductivity 1:6	947	uS/cm
Total Kjeldahl Nitrogen	0.61	% w/w
Total Carbon	5.09	% w/w
C:N Ratio	8.3:1	
Ammonium Nitrogen	424	mg/kg
Total Phosphorus (P)	779	mg/kg
Total Potassium (K)	111	mg/kg
Total Magnesium (Mg)	39.3	mg/kg
Total Copper (Cu)	2.41	mg/kg

Released by Myles Nicholson

Date 02/01/20

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LIQUID WASTE

Sample Reference :

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Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81476
Sample Number	90288

Date Received	17-DEC-2019
Date Reported	02-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Total Zinc (Zn)	17.0	mg/kg
Total Sulphur (S)	453	mg/kg
Total Calcium (Ca)	527	mg/kg
Total Molybdenum (Mo)	0.10	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	0.40	mg/kg
Total Chromium (Cr)	0.90	mg/kg
Total Sodium (Na)	99.1	mg/kg

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Laboratory References

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Sample Number	90288

Date Received	17-DEC-2019
Date Reported	02-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
pH 1:6 [Fresh]	5.53	
Fluoride [100:1 H ₂ SO ₄ Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	0.07	mg/kg
B.O.D. [fresh]	49400	mg/l
Oils,Fats and Grease	1388	mg/kg
Salmonella spp [fresh]	Positive	in 25g
E Coli PAS100	15000	cfu/g

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11607

LIQUID WASTE

Freemans

LIQUID WASTE

Sample Reference :

11607

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81472
Sample Number	90284

Date Received	17-DEC-2019
Date Reported	02-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Oven Dry Solids	11.0	%
Conductivity 1:6	1639	uS/cm
Total Kjeldahl Nitrogen	0.65	% w/w
Total Carbon	5.67	% w/w
C:N Ratio	8.7:1	
Ammonium Nitrogen	762	mg/kg
Total Phosphorus (P)	1514	mg/kg
Total Potassium (K)	224	mg/kg
Total Magnesium (Mg)	159	mg/kg
Total Copper (Cu)	4.65	mg/kg

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11607

LIQUID WASTE

Freemans

LIQUID WASTE

Sample Reference :

11607

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81472
Sample Number	90284

Date Received	17-DEC-2019
Date Reported	02-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Total Zinc (Zn)	33.9	mg/kg
Total Sulphur (S)	687	mg/kg
Total Calcium (Ca)	1347	mg/kg
Total Molybdenum (Mo)	0.37	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	0.02	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	1.11	mg/kg
Total Chromium (Cr)	2.67	mg/kg
Total Sodium (Na)	290	mg/kg

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11607

LIQUID WASTE

Freemans

LIQUID WASTE

Sample Reference :

11607

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81472
Sample Number	90284

Date Received	17-DEC-2019
Date Reported	02-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
pH 1:6 [Fresh]	5.53	
Fluoride [100:1 H ₂ SO ₄ Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	0.09	mg/kg
B.O.D. [fresh]	57750	mg/l
Oils, Fats and Grease	11468	mg/kg
Salmonella spp [fresh]	Positive	in 25g
E Coli PAS100	15000	cfu/g

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11612

LIQUID WASTE

Unilever Crumlin

LIQUID WASTE

Sample Reference :

11612

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81477
Sample Number	90289

Date Received	17-DEC-2019
Date Reported	24-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	8.09	%
Conductivity 1:6	843	uS/cm
Total Kjeldahl Nitrogen	0.10	% w/w
Total Carbon	5.10	% w/w
C:N Ratio	51.0:1	
Ammonium Nitrogen	46.0	mg/kg
Total Phosphorus (P)	198	mg/kg
Total Potassium (K)	61.2	mg/kg
Total Magnesium (Mg)	201	mg/kg
Total Copper (Cu)	8.93	mg/kg

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Date 24/12/19

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11612

LIQUID WASTE

Unilever Crumlin

LIQUID WASTE

Sample Reference :

11612

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81477
Sample Number	90289

Date Received	17-DEC-2019
Date Reported	24-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Total Zinc (Zn)	16.3	mg/kg
Total Sulphur (S)	188	mg/kg
Total Calcium (Ca)	1042	mg/kg
Total Molybdenum (Mo)	0.17	mg/kg
Total Lead (Pb)	1.94	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	0.64	mg/kg
Total Chromium (Cr)	1.30	mg/kg
Total Sodium (Na)	396	mg/kg

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11612

LIQUID WASTE

Unilever Crumlin

LIQUID WASTE

Sample Reference :

11612

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81477
Sample Number	90289

Date Received	17-DEC-2019
Date Reported	24-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
pH 1:6 [Fresh]	5.61	
Fluoride [100:1 H ₂ SO ₄ Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	<0.02	mg/kg
B.O.D. [fresh]	60200	mg/l
Oils,Fats and Grease	5936	mg/kg
Salmonella spp [fresh]	Negative	in 25g
E Coli PAS100	<10	cfu/g

Released by Myles Nicholson

Date 24/12/19

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11662

LIQUID WASTE

Grosmont (Lagoon)

LIQUID WASTE

Sample Reference :

11662

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	84139
Sample Number	91202

Date Received	21-JAN-2020
Date Reported	27-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	3.34	%
Conductivity 1:6	316	uS/cm
Total Kjeldahl Nitrogen	0.11	% w/w
Total Carbon	1.60	% w/w
C:N Ratio	14.6:1	
Ammonium Nitrogen	160	mg/kg
Total Phosphorus (P)	145	mg/kg
Total Potassium (K)	57.4	mg/kg
Total Magnesium (Mg)	27.0	mg/kg
Total Copper (Cu)	1.90	mg/kg

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Date 27/01/20

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11662

LIQUID WASTE

Grosmont (Lagoon)

LIQUID WASTE

Sample Reference :

11662

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	84139
Sample Number	91202

Date Received	21-JAN-2020
Date Reported	27-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Total Zinc (Zn)	17.1	mg/kg
Total Sulphur (S)	213	mg/kg
Total Calcium (Ca)	338	mg/kg
Total Molybdenum (Mo)	0.07	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	<0.2	mg/kg
Total Chromium (Cr)	0.32	mg/kg
Total Sodium (Na)	45.0	mg/kg

Released by Myles NicholsonDate 27/01/20

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LIQUID WASTE

Grosmont (Lagoon)

LIQUID WASTE

Sample Reference :

11662

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	84139
Sample Number	91202

Date Received	21-JAN-2020
Date Reported	27-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
pH 1:6 [Fresh]	6.06	
Fluoride [100:1 H ₂ SO ₄ Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	0.04	mg/kg
B.O.D. [fresh]	21720	mg/l
Oils,Fats and Grease	10341	mg/kg
Salmonella spp [fresh]	Negative	in 25g
E Coli PAS100	200	cfu/g

Released by Myles Nicholson

Date 27/01/20

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JONATHAN LLOYD

Foyles Cinderford

LIQUID WASTE

WASTE ANALYSIS RESULTS

Sample Reference :

11536

Sample Matrix : WASTE

Laboratory References

Report Number	79226
Sample Number	89378

Date Received	27-NOV-2019
Date Reported	12-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Crude Protein	1.6	%
Crude Fibre	0.3	%
Total Solids	5.0	%
Moisture	95.0	%
Ash	0.4	%
Oil-B	<0.3	%
Total Gas Yield [Fresh Material]	23.9	M3/t
Total Methane Content	56	%
Conductivity 1:6	1015	uS/cm
Total Kjeldahl Nitrogen	0.18	% w/w

Released by

Joe Cherrie

Date

12/12/19

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LIQUID WASTE

WASTE ANALYSIS RESULTS

Sample Reference :

11536

Sample Matrix : WASTE

Laboratory References

Report Number	79226
Sample Number	89378

Date Received	27-NOV-2019
Date Reported	12-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Total Carbon	2.63	% w/w
C:N Ratio	14.6:1	
Ammonium Nitrogen	464	mg/kg
Total Phosphorus (P)	412	mg/kg
Total Potassium (K)	187	mg/kg
Total Magnesium (Mg)	29.5	mg/kg
Total Copper (Cu)	0.73	mg/kg
Total Zinc (Zn)	4.41	mg/kg
Total Sulphur (S)	546	mg/kg
Total Calcium (Ca)	227	mg/kg

Released by

Joe Cherrie

Date

12/12/19

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Foyles Cinderford
LIQUID WASTE

WASTE ANALYSIS RESULTS

Sample Reference :

11536

Laboratory References	
Report Number	79226
Sample Number	89378

Sample Matrix : WASTE

Date Received	27-NOV-2019
Date Reported	12-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Total Molybdenum (Mo)	0.07	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	<0.2	mg/kg
Total Chromium (Cr)	0.34	mg/kg
Total Sodium (Na)	368	mg/kg
pH 1:6 [Fresh]	5.34	
Fluoride [100:1 H2SO4 Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg

Released by Joe Cherrie

Date 12/12/19

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Sample Reference :

11536

Sample Matrix : WASTE

Laboratory References

Report Number	79226
Sample Number	89378

Date Received	27-NOV-2019
Date Reported	12-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Total Selenium (Se)	0.03	mg/kg
B.O.D. [fresh]	29250	mg/l
Oils,Fats and Grease	11800	mg/kg
Salmonella spp [fresh]	Positive	in 25g
E Coli [fresh]	15000	cfu/g

Released by Joe Cherrie

Date 12/12/19

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11604

LIQUID WASTE

Wye Valley

LIQUID WASTE

Sample Reference :

11604

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81469
Sample Number	90281

Date Received	17-DEC-2019
Date Reported	24-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	1.16	%
Conductivity 1:6	320	uS/cm
Total Kjeldahl Nitrogen	0.07	% w/w
Total Carbon	0.45	% w/w
C:N Ratio	6.5:1	
Ammonium Nitrogen	<25	mg/kg
Total Phosphorus (P)	157	mg/kg
Total Potassium (K)	99.1	mg/kg
Total Magnesium (Mg)	43.6	mg/kg
Total Copper (Cu)	0.20	mg/kg

Released by Myles Nicholson

Date 24/12/19

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11604

LIQUID WASTE

Wye Valley

LIQUID WASTE

Sample Reference :

11604

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81469
Sample Number	90281

Date Received	17-DEC-2019
Date Reported	24-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Total Zinc (Zn)	1.23	mg/kg
Total Sulphur (S)	145	mg/kg
Total Calcium (Ca)	197	mg/kg
Total Molybdenum (Mo)	<0.05	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	<0.2	mg/kg
Total Chromium (Cr)	0.26	mg/kg
Total Sodium (Na)	424	mg/kg

Released by Myles Nicholson

Date 24/12/19

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11604

LIQUID WASTE

Wye Valley

LIQUID WASTE

Sample Reference :

11604

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81469
Sample Number	90281

Date Received	17-DEC-2019
Date Reported	24-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
pH 1:6 [Fresh]	7.24	
Fluoride [100:1 H ₂ SO ₄ Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	<0.02	mg/kg
B.O.D. [fresh]	1330	mg/l
Oils,Fats and Grease	<200	mg/kg
Salmonella spp [fresh]	Negative	in 25g
E Coli PAS100	35	cfu/g

Released by Myles Nicholson

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11653

LIQUID WASTE

Hays Farms

LIQUID WASTE

Sample Reference :

11653

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	82969
Sample Number	90864

Date Received	10-JAN-2020
Date Reported	31-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	0.510	%
Conductivity 1:6	1140	uS/cm
Total Kjeldahl Nitrogen	0.07	% w/w
Total Carbon	0.15	% w/w
C:N Ratio	2.2:1	
Ammonium Nitrogen	572	mg/kg
Total Phosphorus (P)	153	mg/kg
Total Potassium (K)	613	mg/kg
Total Magnesium (Mg)	101	mg/kg
Total Copper (Cu)	0.23	mg/kg

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11653

LIQUID WASTE

Hays Farms

LIQUID WASTE

Sample Reference :

11653

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	82969
Sample Number	90864

Date Received	10-JAN-2020
Date Reported	31-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Total Zinc (Zn)	1.55	mg/kg
Total Sulphur (S)	101	mg/kg
Total Calcium (Ca)	150	mg/kg
Total Molybdenum (Mo)	<0.05	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	<0.2	mg/kg
Total Chromium (Cr)	0.25	mg/kg
Total Sodium (Na)	123	mg/kg

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11653

LIQUID WASTE

Hays Farms

LIQUID WASTE

Sample Reference :

11653

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	82969
Sample Number	90864

Date Received	10-JAN-2020
Date Reported	31-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
pH 1:6 [Fresh]	7.22	
Fluoride [100:1 H ₂ SO ₄ Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	<0.02	mg/kg
B.O.D. [fresh]	3395	mg/l
Oils,Fats and Grease	<200	mg/kg
Salmonella spp [fresh]	Positive	in 25g
E Coli PAS100	15000	cfu/g

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11608

LIQUID WASTE

Chase

LIQUID WASTE

Sample Reference :

11608

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81473
Sample Number	90285

Date Received	17-DEC-2019
Date Reported	24-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	0.950	%
Conductivity 1:6	838	uS/cm
Total Kjeldahl Nitrogen	0.04	% w/w
Total Carbon	0.59	% w/w
C:N Ratio	14.7:1	
Ammonium Nitrogen	83.0	mg/kg
Total Phosphorus (P)	71.9	mg/kg
Total Potassium (K)	918	mg/kg
Total Magnesium (Mg)	46.9	mg/kg
Total Copper (Cu)	0.43	mg/kg

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11608

LIQUID WASTE

Chase

LIQUID WASTE

Sample Reference :

11608

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81473
Sample Number	90285

Date Received	17-DEC-2019
Date Reported	24-DEC-2019

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Total Zinc (Zn)	1.41	mg/kg
Total Sulphur (S)	43.6	mg/kg
Total Calcium (Ca)	58.0	mg/kg
Total Molybdenum (Mo)	<0.05	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	<0.2	mg/kg
Total Chromium (Cr)	<0.2	mg/kg
Total Sodium (Na)	301	mg/kg

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Sample Reference :

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Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	81473
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Date Received	17-DEC-2019
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The sample will be kept under refrigeration for at least 3 weeks.

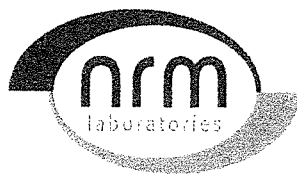
ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
pH 1:6 [Fresh]	3.93	
Fluoride [100:1 H ₂ SO ₄ Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	<0.02	mg/kg
B.O.D. [fresh]	12660	mg/l
Oils,Fats and Grease	<200	mg/kg
Salmonella spp [fresh]	Negative	in 25g
E Coli PAS100	<10	cfu/g

Released by Myles Nicholson

Date 24/12/19

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11657

LIQUID WASTE

Tulip (Westerleigh)

LIQUID WASTE

Sample Reference :

11657

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	83275
Sample Number	90946

Date Received	14-JAN-2020
Date Reported	21-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	7.02	%
Conductivity 1:6	3093	uS/cm
Total Kjeldahl Nitrogen	0.39	% w/w
Total Carbon	4.57	% w/w
C:N Ratio	11.7:1	
Ammonium Nitrogen	1779	mg/kg
Total Phosphorus (P)	706	mg/kg
Total Potassium (K)	732	mg/kg
Total Magnesium (Mg)	263	mg/kg
Total Copper (Cu)	3.95	mg/kg

Released by Myles Nicholson

Date 21/01/20

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11657

LIQUID WASTE

Tulip (Westerleigh)

LIQUID WASTE

Sample Reference :

11657

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	83275
Sample Number	90946

Date Received	14-JAN-2020
Date Reported	21-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

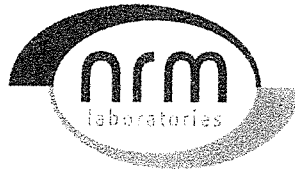
ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Total Zinc (Zn)	20.6	mg/kg
Total Sulphur (S)	265	mg/kg
Total Calcium (Ca)	718	mg/kg
Total Molybdenum (Mo)	0.11	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	0.02	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	<0.2	mg/kg
Total Chromium (Cr)	0.27	mg/kg
Total Sodium (Na)	871	mg/kg

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LIQUID WASTE

Tulip (Westerleigh)

LIQUID WASTE

Sample Reference :

11657

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	83275
Sample Number	90946

Date Received	14-JAN-2020
Date Reported	21-JAN-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
pH 1:6 [Fresh]	5.82	
Fluoride [100:1 H2SO4 Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	0.05	mg/kg
B.O.D. [fresh]	69700	mg/l
Oils,Fats and Grease	27060	mg/kg
Salmonella spp [fresh]	Negative	in 25g
E Coli PAS100	15000	cfu/g

Released by Myles Nicholson

Date 21/01/20

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LIQUID WASTE

Usk Vale Poultry

LIQUID WASTE

Sample Reference :

11709

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	88784
Sample Number	92722

Date Received	20-FEB-2020
Date Reported	26-FEB-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	0.230	%
Conductivity 1:6	180	uS/cm
Total Kjeldahl Nitrogen	0.02	% w/w
Total Carbon	0.14	% w/w
C:N Ratio	6.8:1	
Ammonium Nitrogen	<25	mg/kg
Total Phosphorus (P)	14.2	mg/kg
Total Potassium (K)	39.5	mg/kg
Total Magnesium (Mg)	22.2	mg/kg
Total Copper (Cu)	<0.2	mg/kg

Released by Gina Graham

Date 26/02/20

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LIQUID WASTE

Usk Vale Poultry

LIQUID WASTE

Sample Reference :

11709

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	88784
Sample Number	92722

Date Received	20-FEB-2020
Date Reported	26-FEB-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units
Total Zinc (Zn)	<0.5	mg/kg
Total Sulphur (S)	33.0	mg/kg
Total Calcium (Ca)	72.7	mg/kg
Total Molybdenum (Mo)	<0.05	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	<0.2	mg/kg
Total Chromium (Cr)	<0.2	mg/kg
Total Sodium (Na)	97.9	mg/kg

Released by Gina Graham

Date 26/02/20

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JONATHAN LLOYD

LIQUID WASTE

Usk Vale Poultry

LIQUID WASTE

Sample Reference :

11709

Sample Matrix : LIQUID WASTE

Laboratory References

Report Number	88784
Sample Number	92722

Date Received	20-FEB-2020
Date Reported	26-FEB-2020

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
pH 1:6 [Fresh]	6.78	
Fluoride [100:1 H ₂ SO ₄ Soluble]	<10	mg/kg
Total Arsenic (As)	<0.5	mg/kg
Total Selenium (Se)	<0.02	mg/kg
B.O.D. [fresh]	1250	mg/l
Oils,Fats and Grease	560	mg/kg
Salmonella spp [fresh]	Negative	in 25g
E Coli PAS100	250	cfu/g

Released by Gina Graham

Date 26/02/20

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Grosmont Lagoon '19 02 03' Mixed Waste

Waste Source	EWC Code	Description of Waste
Sun Valley	02 02 04	Treated Sludge
Freemans	02 07 02	DAF Sludge
Unilever Crumlin	02 03 05	Noodle Production
Foyle Foods	02 02 04	DAF Sludge
Wye Valley Brewery	02 07 05	Brewery Processing Waste
Chase	02 07 01	Distillery Waste

Application Rate: 150tns/Ha

	%	<i>Total N</i> (kg/ha)	<i>Ammoniacal</i> <i>N</i> (kg/Ha)	<i>P₂O₅</i> (kg/ha)	<i>K₂O</i> (kg/ha)
Sun Valley	1	9.15	0.64	2.69	0.20
Freemans of Newent	1	9.75	1.14	5.22	0.40
Unilever Crumlin	12	18.00	0.83	8.20	1.32
Foyle Foods	1	2.70	0.70	1.42	0.34
Wye Valley Brewery	33	34.65	1.24	17.87	5.89
Chase	52	31.20	6.47	12.90	85.92
		-----	-----	-----	-----
Totals		105.45	11.01	48.30	94.07

The following total nutrients will be provided:-

105 kg/ha	Total Nitrogen (Organic N)
11 kg/ha	Ammoniacal Nitrogen (Readily Available N)
48 kg/ha	Total Phosphate (P₂O₅)
94 kg/ha	Total Potash (K₂O)

The lagoon is a permitted storage facility for wastes which are produced in the local area. The lagoon contents are made up of the above wastes some of which are also spread on an individual basis. A copy of the analyses of these wastes can be located in the previous pages.