

<b>Sampling Point No:</b>	619819	<b>Location:</b>	ALAW WTW SLUDGE
<b>Date Sampled:</b>	28/11/2025	<b>Time Taken:</b>	09:44
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8613416
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Product Monitoring (SW_ME)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	463	mg/kg		
288 Aluminium	186000	mg/kg		
357 Arsenic	11.3	mg/kg		
4620 pH	6.8	pH		
7774 Mercury	0.44	mg/kg	<	
8241 Volatile solids	43.1	%		
9233 Ammoniacal nitrogen	576	mg/kg		
9234 Sulphur	9560	mg/kg		
9271 Cadmium	0.49	mg/kg	<	
9272 Chromium	19.1	mg/kg	<	
9273 Copper	34.7	mg/kg	<	
9275 Nickel	22.7	mg/kg	<	
9276 Lead	27.6	mg/kg	<	
9277 Zinc	54.7	mg/kg	<	
9278 Iron	7510	mg/kg		
9281 % Dry solids	11.3	%		
9282 % Minerals	56.9	%		
9283 % K (dry weight)	0.0437	mg/kg		
9284 % P (dry weight)	0.260	%	<	
9285 % N (dry weight)	1.53	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	798055	<b>Location:</b>	ALWEN CENTRIFUGE CAKE
<b>Date Sampled:</b>	12/12/2025	<b>Time Taken:</b>	10:38
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8630916
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Product Monitoring (SW_ME)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	252	mg/kg		
288 Aluminium	2400	mg/kg		
357 Arsenic	13.1	mg/kg		
4620 pH	4.8	pH		
7774 Mercury	0.27	mg/kg	<	
8241 Volatile solids	42.5	%		
9233 Ammoniacal nitrogen	33.0	mg/kg	<	
9234 Sulphur	11200	mg/kg		
9271 Cadmium	0.29	mg/kg	<	
9272 Chromium	24.9	mg/kg		
9273 Copper	20.8	mg/kg	<	
9275 Nickel	17.5	mg/kg		
9276 Lead	25.0	mg/kg		
9277 Zinc	126	mg/kg		
9278 Iron	394000	mg/kg		
9281 % Dry solids	18.4	%		
9282 % Minerals	57.5	%		
9283 % K (dry weight)	0.0232	mg/kg	<	
9284 % P (dry weight)	0.156	%	<	
9285 % N (dry weight)	0.689	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	798039	<b>Location:</b>	GLASCOED CENTRIFUGE SLUDGE
<b>Date Sampled:</b>	12/12/2025	<b>Time Taken:</b>	10:36
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8630912
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Product Monitoring (SW_ME)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	2340	mg/kg		
288 Aluminium	7710	mg/kg		
357 Arsenic	24.7	mg/kg		
4620 pH	6.9	pH		
7774 Mercury	0.33	mg/kg	<	
8241 Volatile solids	30.6	%		
9233 Ammoniacal nitrogen	40.2	mg/kg	<	
9234 Sulphur	1730	mg/kg		
9271 Cadmium	0.36	mg/kg	<	
9272 Chromium	28.8	mg/kg		
9273 Copper	31.9	mg/kg		
9275 Nickel	36.5	mg/kg		
9276 Lead	27.1	mg/kg		
9277 Zinc	297	mg/kg		
9278 Iron	396000	mg/kg		
9281 % Dry solids	15.2	%		
9282 % Minerals	69.4	%		
9283 % K (dry weight)	0.111	mg/kg		
9284 % P (dry weight)	0.192	%	<	
9285 % N (dry weight)	0.744	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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ANDREW WORRALL  
BYPRODUCT RECOVERY  
CONTROL HOUSE  
A1 BUSINESS PARK  
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KNOTTINGLEY WF11 0BU

M344

Please quote above code for all enquiries

ABER FALLS DISTILLER

POT ALE

## SLURRY/SLUDGE ANALYSIS RESULTS (Imperial Units)

Sample Reference : POT ALE 10669793

Sample Matrix : SLURRY/SLUDGE

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

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

### Laboratory References

Report Number	26818
Sample Number	173386

Date Received	30-OCT-2025
Date Reported	25-NOV-2025

### ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Units	Value	Amount per fresh ton	Amount per fresh 1000 gallons
Kjeldahl Nitrogen	% w/w	1.08	21.60 Units N	98.19 Units N
Ammonium Nitrogen	mg/kg	580	1.16 Units NH4-N	5.27 Units NH4-N
Total Phosphorus (P)	% w/w	0.098	4.49 Units P2O5	20.40 Units P2O5
Total Potassium (K)	% w/w	0.074	1.78 Units K2O	8.11 Units K2O
Total Magnesium (Mg)	% w/w	0.014	0.46 Units MgO	2.11 Units MgO
Total Sulphur (S)	% w/w	0.057	2.85 Units SO3	12.96 Units SO3
Total Copper (Cu)	mg/kg	299	0.30 kg Cu	1.36 kg Cu
Total Zinc (Zn)	mg/kg	1.33	< 0.01 kg Zn	0.01 kg Zn
Total Sodium (Na)	% w/w	0.007	0.07 kg Na	0.32 kg Na
Oven Dry Solids	%	10.4	104.00 kg DM	472.78 kg DM
Conductivity 1:6	uS/cm	1429		

Released by *Ella Knowles*

Date *25/11/25*

Independently Analysed by **NRM**, part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS

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POT ALE

## SLURRY/SLUDGE ANALYSIS RESULTS (Imperial Units)

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Sample Matrix : SLURRY/SLUDGE

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Date Reported	25-NOV-2025
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### ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Units	Value
Total Calcium (Ca)	mg/kg	63.5
Total Molybdenum (Mo)	mg/kg	0.121
Total Lead (Pb)	mg/kg	<0.5
Total Cadmium (Cd)	mg/kg	<0.01
Total Mercury (Hg)	mg/kg	<0.05
Total Nickel (Ni)	mg/kg	<0.2
Total Chromium (Cr)	mg/kg	<0.2
pH 1:6 [Fresh]		4.18
Organic Matter LOI	% w/w	8.89
Lime Equivalent as CaCO <sub>3</sub>	% w/w	<2
Fluoride [100:1 H <sub>2</sub> SO <sub>4</sub> Soluble]	mg/kg	<10
Total Arsenic (As)	mg/kg	<0.5
Total Selenium (Se)	mg/kg	0.023
Oils,Fats and Grease	mg/kg	<200
N. V. as CaO equivalents	% w/w	<1

The nutrients in slurry are only partially available for plant growth and may or may not be useful. This depends on the time of application but also on the type and form of slurry. More detailed information can be obtained from DEFRA RB209.

Released by *Ella Knowles*

Date *25/11/25*

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