

Sampling Point No:	619819	Location:	ALAW WTW SLUDGE
Date Sampled:	10/07/2025	Time Taken:	10:11
Laboratory:	ALS	Sample ID:	8443909
No. of Results:	20		
Sampling Reason:	WTW Sludge - Product Monitoring (SW_ME)		
Type:	WTW Sludge (SW)		

Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	648	mg/kg		
288 Aluminium	164000	mg/kg		
357 Arsenic	22.1	mg/kg		
4620 pH	6.7	pH		
7774 Mercury	0.31	mg/kg	<	
8241 Volatile solids	49.3	%		
9233 Ammoniacal nitrogen	57.4	mg/kg		
9234 Sulphur	5300	mg/kg		
9271 Cadmium	0.34	mg/kg	<	
9272 Chromium	13.2	mg/kg	<	
9273 Copper	51.4	mg/kg		
9275 Nickel	24.2	mg/kg		
9276 Lead	19.0	mg/kg	<	
9277 Zinc	85.7	mg/kg		
9278 Iron	17800	mg/kg		
9281 % Dry solids	16.4	%		
9282 % Minerals	50.7	%		
9283 % K (dry weight)	0.0414	mg/kg		
9284 % P (dry weight)	0.354	%		
9285 % N (dry weight)	1.23	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	23600	Location:	BRYN COWLYD WTW - SLUDGE Byproduct
Date Sampled:	28/04/2025	Time Taken:	20:51
Laboratory:	ALS	Sample ID:	8358325
No. of Results:	20		
Sampling Reason:	WTW Sludge - Investigation (SW_SI)		
Type:	WTW Sludge (SW)		

Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	369	mg/kg		
288 Aluminium	3720	mg/kg		
357 Arsenic	13.1	mg/kg		
4620 pH	5.9	pH		
7774 Mercury	1.72	mg/kg	<	
8241 Volatile solids	29.6	%		
9233 Ammoniacal nitrogen	262	mg/kg	<	
9234 Sulphur	4180	mg/kg		
9271 Cadmium	0.73	mg/kg		
9272 Chromium	2.92	mg/kg	<	
9273 Copper	4.98	mg/kg	<	
9275 Nickel	37.2	mg/kg		
9276 Lead	13	mg/kg		
9277 Zinc	168	mg/kg		
9278 Iron	460000	mg/kg		
9281 % Dry solids	2.33	%		
9282 % Minerals	70.4	%		
9283 % K (dry weight)	0.02	mg/kg	<	
9284 % P (dry weight)	0.0301	%		
9285 % N (dry weight)	0.664	%	<	

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	622914	Location:	CEFNI WTW SLUDGE
Date Sampled:	11/11/2025	Time Taken:	10:44
Laboratory:	ALS	Sample ID:	8591164
No. of Results:	20		
Sampling Reason:	WTW Sludge - Product Monitoring (SW_ME)		
Type:	WTW Sludge (SW)		

Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	675	mg/kg		
288 Aluminium	712000	mg/kg		
357 Arsenic	17.5	mg/kg		
4620 pH	6.8	pH		
7774 Mercury	0.69	mg/kg	<	
8241 Volatile solids	37.0	%		
9233 Ammoniacal nitrogen	434	mg/kg		
9234 Sulphur	15200	mg/kg		
9271 Cadmium	0.76	mg/kg	<	
9272 Chromium	29.7	mg/kg	<	
9273 Copper	53.9	mg/kg	<	
9275 Nickel	35.2	mg/kg	<	
9276 Lead	42.8	mg/kg	<	
9277 Zinc	84.9	mg/kg	<	
9278 Iron	5070	mg/kg		
9281 % Dry solids	2.92	%		
9282 % Minerals	63.0	%		
9283 % K (dry weight)	0.0601	mg/kg	<	
9284 % P (dry weight)	0.403	%	<	
9285 % N (dry weight)	1.06	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	631625	Location:	CILFOR WTW SLUDGE
Date Sampled:	11/11/2025	Time Taken:	10:38
Laboratory:	ALS	Sample ID:	8591152
No. of Results:	20		
Sampling Reason:	WTW Sludge - Product Monitoring (SW_ME)		
Type:	WTW Sludge (SW)		

Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	1260	mg/kg		
288 Aluminium	1040000	mg/kg		
357 Arsenic	14.5	mg/kg	<	
4620 pH	6.9	pH		
7774 Mercury	0.97	mg/kg	<	
8241 Volatile solids	46.1	%		
9233 Ammoniacal nitrogen	296.1	mg/kg	<	
9234 Sulphur	13800	mg/kg		
9271 Cadmium	1.06	mg/kg	<	
9272 Chromium	41.5	mg/kg	<	
9273 Copper	75.3	mg/kg	<	
9275 Nickel	49.2	mg/kg	<	
9276 Lead	59.8	mg/kg	<	
9277 Zinc	119	mg/kg	<	
9278 Iron	3510	mg/kg		
9281 % Dry solids	2.06	%		
9282 % Minerals	53.9	%		
9283 % K (dry weight)	0.0840	mg/kg	<	
9284 % P (dry weight)	0.564	%	<	
9285 % N (dry weight)	1.05	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	698007	Location:	CWELLYN WTW SLUDGE
Date Sampled:	11/11/2025	Time Taken:	10:39
Laboratory:	ALS	Sample ID:	8591154
No. of Results:	20		
Sampling Reason:	WTW Sludge - Product Monitoring (SW_ME)		
Type:	WTW Sludge (SW)		

Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	589	mg/kg		
288 Aluminium	848000	mg/kg		
357 Arsenic	28.4	mg/kg		
4620 pH	6.8	pH		
7774 Mercury	0.58	mg/kg	<	
8241 Volatile solids	48.5	%		
9233 Ammoniacal nitrogen	310	mg/kg		
9234 Sulphur	7590	mg/kg		
9271 Cadmium	0.87	mg/kg		
9272 Chromium	24.9	mg/kg	<	
9273 Copper	76.2	mg/kg		
9275 Nickel	32.2	mg/kg		
9276 Lead	35.9	mg/kg	<	
9277 Zinc	226	mg/kg		
9278 Iron	7290	mg/kg		
9281 % Dry solids	3.42	%		
9282 % Minerals	51.5	%		
9283 % K (dry weight)	0.0504	mg/kg	<	
9284 % P (dry weight)	0.338	%	<	
9285 % N (dry weight)	1.47	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	359181	Location:	DOLBENMAEN WTW SLUDGE
Date Sampled:	11/11/2025	Time Taken:	10:40
Laboratory:	ALS	Sample ID:	8591156
No. of Results:	20		
Sampling Reason:	WTW Sludge - Product Monitoring (SW_ME)		
Type:	WTW Sludge (SW)		

Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	321	mg/kg		
288 Aluminium	1220000	mg/kg		
357 Arsenic	21.3	mg/kg		
4620 pH	7.0	pH		
7774 Mercury	0.60	mg/kg	<	
8241 Volatile solids	39.1	%		
9233 Ammoniacal nitrogen	384	mg/kg		
9234 Sulphur	9490	mg/kg		
9271 Cadmium	2.26	mg/kg		
9272 Chromium	26.0	mg/kg	<	
9273 Copper	47.1	mg/kg	<	
9275 Nickel	30.8	mg/kg	<	
9276 Lead	37.4	mg/kg	<	
9277 Zinc	319	mg/kg		
9278 Iron	5800	mg/kg		
9281 % Dry solids	3.30	%		
9282 % Minerals	60.9	%		
9283 % K (dry weight)	0.0525	mg/kg	<	
9284 % P (dry weight)	0.353	%	<	
9285 % N (dry weight)	1.12	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	698171	Location:	GARREGLWYD WTW SLUDGE
Date Sampled:	11/11/2025	Time Taken:	10:34
Laboratory:	ALS	Sample ID:	8591146
No. of Results:	20		
Sampling Reason:	WTW Sludge - Investigation (SW_SI)		
Type:	WTW Sludge (SW)		

Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	387	mg/kg		
288 Aluminium	3810	mg/kg		
357 Arsenic	17.6	mg/kg		
4620 pH	6.4	pH		
7774 Mercury	0.32	mg/kg	<	
8241 Volatile solids	35.2	%		
9233 Ammoniacal nitrogen	97.9	mg/kg	<	
9234 Sulphur	2100	mg/kg		
9271 Cadmium	2.67	mg/kg		
9272 Chromium	16.2	mg/kg		
9273 Copper	35.4	mg/kg		
9275 Nickel	31.0	mg/kg		
9276 Lead	31.4	mg/kg		
9277 Zinc	331	mg/kg		
9278 Iron	383000	mg/kg		
9281 % Dry solids	6.21	%		
9282 % Minerals	64.8	%		
9283 % K (dry weight)	0.0281	mg/kg	<	
9284 % P (dry weight)	0.188	%	<	
9285 % N (dry weight)	0.766	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	698086	Location:	LLYN CONWY SLUDGE
Date Sampled:	28/04/2025	Time Taken:	20:50
Laboratory:	ALS	Sample ID:	8358323
No. of Results:	20		
Sampling Reason:	WTW Sludge - Investigation (SW_SI)		
Type:	WTW Sludge (SW)		

Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	353	mg/kg		
288 Aluminium	3410	mg/kg		
357 Arsenic	25.6	mg/kg		
4620 pH	5.7	pH		
7774 Mercury	0.97	mg/kg	<	
8241 Volatile solids	32.6	%		
9233 Ammoniacal nitrogen	149	mg/kg	<	
9234 Sulphur	4260	mg/kg		
9271 Cadmium	1.16	mg/kg		
9272 Chromium	14.4	mg/kg		
9273 Copper	860	mg/kg		
9275 Nickel	32.3	mg/kg		
9276 Lead	56.6	mg/kg		
9277 Zinc	360	mg/kg		
9278 Iron	448000	mg/kg		
9281 % Dry solids	4.12	%		
9282 % Minerals	67.4	%		
9283 % K (dry weight)	0.01	mg/kg	<	
9284 % P (dry weight)	0.113	%		
9285 % N (dry weight)	0.594	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	698028	Location:	MYNYDD LLANDEGAI SLUDGE
Date Sampled:	11/11/2025	Time Taken:	10:43
Laboratory:	ALS	Sample ID:	8591162
No. of Results:	20		
Sampling Reason:	WTW Sludge - Product Monitoring (SW_ME)		
Type:	WTW Sludge (SW)		

Sample Results

Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	587	mg/kg		
288 Aluminium	922000	mg/kg		
357 Arsenic	21.2	mg/kg		
4620 pH	7.0	pH		
7774 Mercury	0.50	mg/kg	<	
8241 Volatile solids	50.1	%		
9233 Ammoniacal nitrogen	151.4	mg/kg	<	
9234 Sulphur	6070	mg/kg		
9271 Cadmium	0.61	mg/kg		
9272 Chromium	21.4	mg/kg	<	
9273 Copper	88.2	mg/kg		
9275 Nickel	25.3	mg/kg	<	
9276 Lead	30.8	mg/kg	<	
9277 Zinc	125	mg/kg		
9278 Iron	4290	mg/kg		
9281 % Dry solids	4.01	%		
9282 % Minerals	49.9	%		
9283 % K (dry weight)	0.0432	mg/kg	<	
9284 % P (dry weight)	0.362	%		
9285 % N (dry weight)	1.06	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit

Sampling Point No:	618214	Location:	RHIW GOCH WTW SLUDGE
Date Sampled:	11/11/2025	Time Taken:	10:36
Laboratory:	ALS	Sample ID:	8591148
No. of Results:	20		
Sampling Reason:	WTW Sludge - Product Monitoring (SW_ME)		
Type:	WTW Sludge (SW)		

Sample Results

Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	174	mg/kg	<	
288 Aluminium	5170	mg/kg		
357 Arsenic	8.6	mg/kg		
4620 pH	5.7	pH		
7774 Mercury	0.46	mg/kg	<	
8241 Volatile solids	34.9	%		
9233 Ammoniacal nitrogen	139.1	mg/kg	<	
9234 Sulphur	7960	mg/kg		
9271 Cadmium	0.50	mg/kg	<	
9272 Chromium	19.7	mg/kg	<	
9273 Copper	35.7	mg/kg	<	
9275 Nickel	23.3	mg/kg	<	
9276 Lead	28.4	mg/kg	<	
9277 Zinc	185	mg/kg		
9278 Iron	2070000	mg/kg		
9281 % Dry solids	4.39	%		
9282 % Minerals	65.1	%		
9283 % K (dry weight)	0.0398	mg/kg	<	
9284 % P (dry weight)	0.577	%		
9285 % N (dry weight)	0.577	%		

Comments:

Signed:

Approved by:

Position:

Upper Limit
