ALS Laboratories (UK) Limited
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Mr Long
Palm Paper Limited
Poplar Avenue
Saddlebow Industrial Estate
King's Lynn PE34 3AL
Norfolk

08 October 2025

Test Report: COV/2890657/2025

Dear Mr Long

Analysis of your sample(s) submitted on 23 September 2025 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0) 2476 421213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, or to arrange container delivery or sample collection or information on our drop-off locations please contact Customer Services.

Thank you for using ALS Laboratories (UK) Limited and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: P. Patel

Title: Inorganics Chemistry Manager

Report Summary

ANALYSED BY

UKAS TESTING 1314

Mr Andrew Long
Palm Paper Limited
Poplar Avenue
Saddlebow Industrial Estate
King's Lynn
Norfolk
PE34 3AL

Date of Issue: **08 October 2025**

Report Number: **COV/2890657/2025** Issue **1**

This issue replaces all previous issues

Job Description: Treated Sewage Analysis

Job Location: Kings Lynn

Number of Samples included in this report **1**

Job Received: **23 September 2025**

Number of Test Results included in this report **50**

Analysis Commenced: **24 September 2025**

Signed:

Name: **P. Patel** Date: **08 October 2025**

Title: **Inorganics Chemistry Manager**

ALS Laboratories (UK) Limited was not responsible for sampling unless otherwise stated.

Information on the methods of analysis and performance characteristics are available on request.
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested and where relevant sampled. Information supplied by the customer may affect the validity of results.
Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.
This test report is not a statement of conformity to any specification or standard.

Certificate of Analysis

ANALYSED BY

UKAS TESTING 1314

Report Number:	**COV/2890657/2025**	Issue	1
Laboratory Number:	**25636922**	Sample	1 of 1

Sample Source:	**Palm Paper Limited**
Sample Point Description:	
Sample Description:	**Treated Effluent Discharge**
Sample Matrix:	**Treated Sewage**
Sample Date/Time:	**22 September 2025 07:00**
Sample Received:	**23 September 2025**
Analysis Complete:	**08 October 2025**

Test Description	Result	Units	Completed	Accreditation		Method
Mercury, Total as Hg	<0.01	ug/l	25/09/2025	Y	Cov	WAS013
pH	8.1	pH units	24/09/2025	Y	Cov	WAS039
Conductivity, Electrical 25C	5460	uS/cm	24/09/2025	N	Cov	WAS039
Turbidity	5.82	NTU	25/09/2025	Y	Cov	WAS066
Ammoniacal Nitrogen as N	<0.55	mg/l	24/09/2025	Y	Cov	WAS036
Chloride as Cl	1190	mg/l	24/09/2025	Y	Cov	WAS036
Nitrate as N	3.1	mg/l	24/09/2025	Y	Cov	WAS036
Nitrite as N	0.13	mg/l	24/09/2025	Y	Cov	WAS036
Nitrogen, Total Oxidised as N	3.2	mg/l	24/09/2025	Y	Cov	WAS036
Sulphate as SO4	278	mg/l	24/09/2025	Y	Cov	WAS036
Total Suspended Solids	13.0	mg/l	30/09/2025	Y	Cov	WAS006
BOD + ATU (5 day)	<1	mg/l	01/10/2025	Y	Cov	WAS001
COD (Total)	134	mg/l	24/09/2025	Y	Cov	WAS040
TOC as C	43.6	mg/l	03/10/2025	Y	Cov	WAS005
Aluminium, total as Al (ug/l)	<7.5	ug/l	26/09/2025	Y	Cov	WAS076
Arsenic, total as As (ug/l)	2.16	ug/l	26/09/2025	Y	Cov	WAS076
Calcium, total as Ca (mg/l)	146	mg/l	26/09/2025	Y	Cov	WAS076
Chromium, total as Cr (mg/l)	0.00253	mg/l	26/09/2025	Y	Cov	WAS076
Copper, total as Cu (mg/l)	0.0022	mg/l	26/09/2025	Y	Cov	WAS076
Iron, total as Fe (mg/l)	1.03	mg/l	26/09/2025	Y	Cov	WAS076
Magnesium, total as Mg (mg/l)	57.8	mg/l	26/09/2025	Y	Cov	WAS076
Manganese, total as Mn (mg/l)	0.0789	mg/l	26/09/2025	Y	Cov	WAS076
Nickel, total as Ni (mg/l)	0.0048	mg/l	26/09/2025	Y	Cov	WAS076
Phosphorus, total as P (mg/l)	0.857	mg/l	26/09/2025	Y	Cov	WAS076
Potassium, total as K (mg/l)	30.5	mg/l	26/09/2025	Y	Cov	WAS076
Selenium, total as Se (ug/l)	<0.60	ug/l	26/09/2025	Y	Cov	WAS076
Sodium, total as Na (mg/l)	972	mg/l	01/10/2025	Y	Cov	WAS076
Zinc, total as Zn (ug/l)	<6.0	ug/l	26/09/2025	Y	Cov	WAS076

Certificate of Analysis

ANALYSED BY

UKAS TESTING 1314

Report Number:	**COV/2890657/2025**	Issue	1
Laboratory Number:	**25636922**	Sample	1 of 1

Sample Source:	**Palm Paper Limited**
Sample Point Description:	
Sample Description:	**Treated Effluent Discharge**
Sample Matrix:	**Treated Sewage**
Sample Date/Time:	**22 September 2025 07:00**
Sample Received:	**23 September 2025**
Analysis Complete:	**08 October 2025**

Test Description	Result	Units	Completed	Accreditation		Method
Mercury, Filtered as Hg	<0.100	ug/l	24/09/2025	Y	Cov	WAS013
Nitrogen, Total as N	5.8	mg/l	07/10/2025	Y	Cov	WAS022
Aluminium, filter as Al (mg/l)	<0.0035	mg/l	25/09/2025	Y	Cov	WAS076
Arsenic, filter as As (ug/l)	2.1	ug/l	25/09/2025	Y	Cov	WAS076
Boron, filter as B (mg/l)	0.812	mg/l	25/09/2025	Y	Cov	WAS076
Cadmium, filter as Cd (ug/l)	<0.02	ug/l	25/09/2025	Y	Cov	WAS076
Cadmium, total as Cd (ug/l)	<0.07	ug/l	26/09/2025	Y	Cov	WAS076
Calcium, filter as Ca (mg/l)	147	mg/l	25/09/2025	Y	Cov	WAS076
Cobalt, filter as Co (mg/l)	0.00573	mg/l	25/09/2025	Y	Cov	WAS076
Copper, filter as Cu (mg/l)	<0.0040	mg/l	25/09/2025	Y	Cov	WAS076
Iron, filter as Fe (mg/l)	0.090	mg/l	25/09/2025	Y	Cov	WAS076
Lead, filter as Pb (ug/l)	<0.30	ug/l	25/09/2025	Y	Cov	WAS076
Lead, total as Pb (ug/l)	<0.30	ug/l	26/09/2025	Y	Cov	WAS076
Magnesium, filter as Mg (mg/l)	54.4	mg/l	25/09/2025	Y	Cov	WAS076
Manganese, filter as Mn (mg/l)	0.0605	mg/l	25/09/2025	Y	Cov	WAS076
Molybdenum, filter as Mo(mg/l)	0.0317	mg/l	30/09/2025	Y	Cov	WAS076
Molybdenum, total as Mo (mg/l)	0.0305	mg/l	26/09/2025	Y	Cov	WAS076
Nickel, filter as Ni (mg/l)	0.0047	mg/l	25/09/2025	Y	Cov	WAS076
Potassium, filter as K (mg/l)	29.8	mg/l	25/09/2025	Y	Cov	WAS076
Sodium, filter as Na (mg/l)	1080	mg/l	26/09/2025	Y	Cov	WAS076
Vanadium, filter as V (mg/l)	0.0105	mg/l	25/09/2025	Y	Cov	WAS076
Zinc, filter as Zn (ug/l)	6.6	ug/l	25/09/2025	Y	Cov	WAS076

Analyst Comments for 25636922: This sample has been analysed for Turbidity, Total Suspended Solids, BOD + ATU (5 day), TOC as C, Sodium, total as Na(mg/l), Nitrogen, Total as N outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed.
Sample filtered through 0.45um filter prior to Nitrogen analysis.{*/}.Integrity breach between total and filtered molybdenum, results within method?s reporting limit.

This issue replaces all previous issues
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Che = Chester(CH5 3US), Cov = Coventry(CV4 9GU), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG), F = Data supplied by customer.
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered.
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: 

Name: **P. Patel** Date: **08 October 2025**

Title: **Inorganics Chemistry Manager**

ANALYST COMMENTS FOR REPORT COV/2890657/2025 Issue 1

This issue replaces all previous issues

Date of Issue: **08 October 2025**

Sample No	Analysis Comments
25636922	This sample has been analysed for Turbidity, Total Suspended Solids, BOD + ATU (5 day), TOC as C, Sodium, total as Na(mg/l), Nitrogen, Total as N outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}It was noted that the particulates within the sample settled on standing. The reported turbidity result was the maximum observed. Sample filtered through 0.45um filter prior to Nitrogen analysis.{*/}.Integrity breach between total and filtered molybdenum, results within method?s reporting limit.

Signed: 

Name: **P. Patel** Date: **08 October 2025**

Title: **Inorganics Chemistry Manager**

DETERMINAND COMMENTS FOR REPORT COV/2890657/2025

ISSUE 1

This issue replaces all previous issues

Date of Issue: 08 October 2025

Sample No	Description	Determinand	Comments
25636922	Treated Effluent Discharge	Mercury, Filtered as Hg	{/*}The reporting limit has been raised for mercury due to sample matrix interference. {*/}

Signed:

Name: **P. Patel** Date: **08 October 2025**

Title: **Inorganics Chemistry Manager**

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